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1914

George Stark Spencer

ROUTLEDGE SEED & FLORAL CO.

169, 2nd ST.
PORTLAND, ORE.

Select French Grown

Early Scarlet Turnip.

White Tipped Radish

IMPORTANT FOR YOUR GUIDANCE PLEASE READ

New Parcels Post Rates.

THE NEW PARCEL-POST LAW HAS NOT CHANGED POSTAGE RATES ON SEEDS, ETC. Bulletin No. 336 by Postmaster General reads "That this Act shall not in any way affect the postage rate on seeds, cuttings, bulbs, roots, scions and plants, as fixed by section 482 of the Postal Laws and Regulations."

THEREFORE we cannot send any of the above named stocks by mail for less than $\frac{1}{2}c$ per oz. or 8c per lb. BUT we are now allowed to send any weight package up to 11 lbs. In the first and second zones only, we can send a 20-lb. package.

Parcel Post Rates Apply on Merchandise We Offer

SUCH AS Tools, Sprayers, dry Spray, odorless Fertilizer, Insecticides, Poultry Supplies and Foods, Remedies, etc., therefore the U. S. Parcel Post will be of advantage to many of our distant customers and those living away from Express Offices on Rural Delivery routes. All merchandise mailable by Parcel Post offered in this catalogue we have marked "P. P." and given the packed weight so that extra money for postage may be allowed according to Zone distances as follows:

U. S. PARCEL POST RATES (Seeds, Plants, Bulbs, Roots, Liquids and Poisons excluded)						Each
First	Zone,	within	50 miles of Portland	Pound	Additional Pound	or fraction.
Second	" over	50 "	150 "	" "	"	5c. 3c.
Third	" "	150 "	300 "	" "	"	6c. 4c.
Fourth	" "	300 "	600 "	" "	"	7c. 5c.
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SEEDS POSTPAID BY MAIL: We send all Vegetable and Flower Seeds, in quantities of one pound or less, by mail, postpaid, to any postoffice in the United States, at the prices named in this catalog, excepting Peas, Beans and Corn.

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Note.—There are so many contingencies to be encountered in growing plants from seed and in setting out plants, trees, etc., that are dependent on the weather and other conditions over which we have no control that success is not altogether dependent on the seed or plant, therefore while we use every precaution in procuring fresh, pure and reliable seeds, etc., we, in common with other responsible seed houses, sell our goods subject to the following disclaimer, it being that adopted by the American Seed Trade Association, i. e.: We give no warranty, express or implied, as to description, quality, productiveness or any other matter of any seeds, bulbs, trees or plants sent out, and will not be in any way responsible for the crop. If the purchaser does not accept the goods on these terms, they are at once to be returned.—Routledge Seed & Floral Co.

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NAME	POST OFFICE	R. F. D.	STATE

Remember—Add 10c lb. for postage for Peas, Beans and Corn if wanted by mail.



Greetings to Our Customers & Friends

Portland, Ore., Jan. 1st, 1914.

We have endeavored to make this, our Complete Annual for 1914, more complete and interesting than heretofore. All the different seeds, supplies and other stocks are classified in sections, and by referring to the index on this page and the next you can quickly find anything wanted.

This book has been carefully rewritten and brought up-to-date; in fact, you cannot find a more complete and reliable guide to buy from.

This is the Seventeenth Annual Seed Catalog written by our expert catalog writer, and he knows Western conditions and the best stocks for this Coast.

The "Back to the Soil" movement is gaining rapidly and whether it be on a small or a large scale individually, it's certainly a great thing for the country, and a healthful, inspiring work.

The present high cost of living can be greatly reduced by the home growing of Vegetables and Fruits and the raising of Poultry and Eggs.

We appreciate the many favors and orders given us, the kind words expressed and loyalty of our customers.

This year we have larger and more varied stocks and better equipment. Our motto is and always will be "Quality First, Price as Low as We Can Make It." We are catering to the best class of buyers who appreciate "High Quality," service, etc. Our knowledge and experience is at your command always.

Trusting that you will again favor us with your valued orders, we remain,

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169-171 2nd St., near Morrison.

CITY TREE YARD,
Corner Fourth and Madison Sts.

*Routledge
Seed & Floral Co.*

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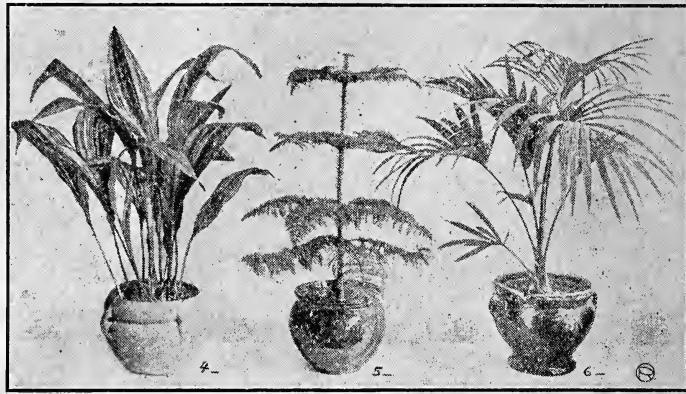
Specimen Plants. Read note bottom next page. as to size, etc.

Araucaria Excelsia

(Norfolk Island Pine)

This beautiful plant resembles the pine somewhat in appearance, though much finer in texture; it is particularly adapted to parlor table decoration. It is most unique in appearance, the branches being arranged in neat, symmetrical whorls. They do not require much sun, and are hardy and easily cared for. (See cut No. 5.)

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Phoenix Roebeleni (See cut No. 7)

A new Palm. One of the most graceful and the hardest. The horticultural world has enthused

over this beautiful Palm. It has the grace and lightness of *Cocos Weddelliana*, but is more robust in growth and has ten-fold the foliage of that fine variety. Foliage from the ground up, gracefully recurved and spreading in habit. It will be most popular for house decoration.

Choice potted plants, \$1.00 to \$2.00; specimens, \$2.50 to \$4.00.

Rubber Plant (Ficus Elastica) (See cut No. 8)

This is certainly one of the best plants grown for decorative purposes. It succeeds well with ordinary treatment. Its glossy, thick, dark-green leaves are not affected by dust or gas.

Choice potted plants, 12 to 15 in., 75c to \$1.00; 18 to 24 in., \$2.00 to \$2.50.

Dracaena Indivisa (Fountain Plant)

This plant is unsurpassed for hardiness. Leaves graceful, long, narrow and pointed, used extensively for centers in pots, boxes or urns with other plants. Perfectly hardy outside in summer. Nice plants, 12 to 15 in., 35c to 50c; 18 to 24 in., \$1.00 to \$1.50.

Cocos Weddelliana (See cut No. 9)

The most elegant and graceful of all the smaller Palms. Its slender, erect stem is freely furnished with its graceful arching leaves of rich green color. Small plants are very desirable for centers in fern dishes.

Choice potted plants, 12 in., 50c to 75c; 15 to 18 in., \$1.50 to \$2.00. Specimens, \$3.50 to \$5.00.



No. 7, Phoenix. 8, Rubber Plant. 9, Cocos Palm.

BAYS AND BOX.
For prices on Bay Trees, Evergreen Box, etc., in tubs, write.

JARDINIERES, POTS, JAPAN TUBS, ETC.—We carry a full stock. See pg. 110.

CANARY BIRDS

Did you ever hear an imported Hartz Mountain Canary sing? They are the sweetest singers on earth. We import the finest stock. (See page 126.)

BEAUTIFUL FERNS

A home, no matter how lavishly furnished, is not complete without decorative plants and palms.

The bold, majestic palms and delicate, feathery foliage of the ferns, lend a grandeur and magnificence that cannot be obtained in any other way, and no decoration, whether in the conservatory, hall, parlor or dining room, is complete without them. We offer a choice collection that will succeed under the most ordinary conditions.

Ostrich Plume (See cut)

The fronds of this popular variety are the most delicate and plume-like. They are beautiful, full and fluffy, well-grown plants; are truly magnificent and last well in the house.

Choice plants, 20c to 35c, postpaid; specimen plants in pots, \$1.00 to \$2.00; extra large, \$2.50 to \$3.50

Boston Fern

One of the most beautiful and useful of house plants. It is of easy culture, and its sword-like fronds, in large specimens, attain a length of 3 to 4 feet, produced in a bewildering mass, arching, curving and interlacing in every conceivable direction.

Choice plants, 20c to 35c; postpaid. Specimen plants in pots, 75c to \$1.00; \$1.50 and up to \$2.50

Asparagus Sprengeri (Emerald Feather)

(See cut No. 1)

This is undoubtedly one of the handsomest and most valuable evergreen trailing plants for the house and conservatory ever introduced. It is especially valuable for pots, vases, baskets, etc., covering all with its beautiful sprays of lovely green, feathery foliage; quite hardy and valuable for hanging baskets or porch boxes in summer if given partial shade and plenty of water.

Choice plants, 20c to 30c, postpaid. Specimen plants in pots, 35c to 75c. Extra large pots or baskets, \$1.50 to \$2.50.

Asparagus Plumosus (Climbing Lace Fern) (See cut No. 3)

A finer and more delicate plant than the Sprenger, but hardy and easily grown. Very satisfactory for window and house culture. An extremely graceful window climber, bright green, feathery foliage, as fine as the finest silk or lace. The fronds retain their freshness for weeks when cut, and are greatly admired for floral decoration.

Choice plants, 20c to 30c, postpaid. Specimen plants in pots, 35c to 75c.

Maiden Hair Fern (Adiantum Cuneatum)

A very beautiful, dainty and graceful fern.

Small plants, 20c, postpaid; choice potted plants, 35c to \$1.00 each.



Ostrich Plume Fern

FILLED FERN DISHES

These are pretty, popular, fashionable and very desirable for center pieces for the tea or dinner table or as ornamental plants on the side-board or center tables. Most of the ferns used for filling these dishes are described below and it requires from five to seven or eight plants, according to size of dish.

A choice collection of plants in pretty matt green dishes \$1.50 to \$2.00. In fancy dishes \$2.00 to \$3.50. (See Cut No. 2.)

NOTE.—Must go by express; cannot be mailed.

BEAUTIFUL SMALL FERNS

These handsome little Ferns are used mostly in filling fern dishes, your choice 20c each; 3 for 50c, postpaid.

ASPIDIUM TSUSSIMENSE.—Without question the most valuable of all ferns yet introduced for fern dishes; of strong but dwarf and graceful habit.

CRYPTOMIUM FALCATUM (The Holly-Leaved Fern.) —One of the most desirable, very hardy and pretty.

PTERIS ARGYREA (Silver Fern.) — A very showy Fern, with variegated foliage.

PTERIS WILSONI.—A very pretty and useful Fern; green leaves with the ends very peculiarly crested; beautiful sort for fern dishes.



NO. 1, Asparagus Sprengeri. NO. 2, Filled Fern Dish. NO. 3, Asparagus Plumosus.

Specimen Plants

THESE ARE LARGE, CHOICE, WELL-SHAPED PLANTS, GROWING IN POTS, AND ARE VERY BEAUTIFUL. WE WRAP AND PACK CAREFULLY AND THEY GO BY EXPRESS AT BUYER'S EXPENSE.

CHOICE ROSE PLANTS

One-year-old mail order size sent postpaid anywhere in the United States.

For spring and summer planting—not for fall delivery.

On this page we are offering four choice collections of the finest roses. This is the popular mail order size that we send by mail or express, charges prepaid. They are grown in small pots, are strong, healthy and well rooted, and from 8 to 12 inches high. They should not be planted outside before severe weather is over in the spring, but you can order early and keep the plants in boxes or pots in a sheltered location until the ground is ready. By doing this you will have them on hand just when wanted, and your plants will be growing larger and harder. While this size will not produce so many blooms the first season as our large field-grown plants offered on the following pages, you will be surprised at the results you can obtain, and at quite a saving in price. Do not class these plants and others we offer with the cheap, low-priced plants advertised and sold by Eastern and Southern florists, for there is no comparison. We have no time for "trash."



Sunburst.

1914 Novelty Collection of New Roses.

Price, 25c each; set of six sorts, \$1.25 postpaid.

ALICE LEMON.—Very large, perfect flowers with shell-like petals of remarkable substance; color blush white shaded salmon pink; long, pointed buds.

Lady Pirrie—

An elegant fancy rose of remarkable coloring, a mingling of salmon, apricot, and copper, a fine garden rose.

Milady—

An American pedigreed rose of sterling merit. Bright crimson scarlet; very full and sweet-scented.

MRS. GEORGE SHAWYER.—Beautifully shaped, peach pink buds on long stems. Wonderfully free in growth and bloom.

MADAME P. EULER.—Brilliant vermillion pink; very fragrant and free in growth. One of the best new roses.

SUNBURST.—Without doubt the finest yellow rose in existence. Grand free growth and large buds and flowers of an orange-copper color shaded golden yellow. Superb.

Superb Collection Grand, New, Everblooming Roses.

Price, 20c each; set of six sorts, \$1.00 postpaid.

EDWARD MAWLEY.—Comes finely recommended from England. Intense scarlet shaded crimson.

DUCHESS OF WELLINGTON.—Saffron yellow, stained with rich crimson. Very large.

JONKHEER J. L. MOCK.—Remarkably strong growth and large, massive flowers. Color clear rich bright pink, faced with carmine.

MRS. FOLEY HOBBES.—A grand new tea rose of strong growth. Ivory white tinged with pink.

LADY HILLINGDON.—Long, pointed buds of a rich orange-yellow color, borne on long, graceful stems.

LADY ALICE STANLEY.—Beautiful long pointed buds; coral rose, shaded lighter on inside of petals.

American Beauty Collection Choice Roses.

Price, 15c each; set of twelve for \$1.25, postpaid.

American Beauty.—Rosy crimson; fine large flowers. Belle Seibrecht.—Bright pink; beautiful flowers.

Dean Hole.—Silvery carmine shaded peach.

Kaiseringer Augusta Victoria.—Best creamy white.

Mad. Abel Chatenay.—Glowing dark pink; very free.

Madam Caroline Testout.—Our most popular pink.

Madame Leon Pain.—Silvery flesh, shaded yellow.

Maman Cochet.—Beautiful rosy pink; very fine.

Richmond.—Crimson scarlet buds.

Souv. de P. Notting.—Rich yellow, bordered pink.

Souv. de President Carnot.—Shell pink; fawn and creamy white.

White Maman Cochet.—Pure white; elegant buds.

Popular Collection Hardy Roses.

Price, 15c each; set of twelve for \$1.25, postpaid.

Anna de Diesbach.—Beautiful, clear carmine pink. Baron de Bonstettin.—Dark, rich red; very large and full.

Captain Hayward.—Rich glowing red, very large.

General Jacqueminot.—Bright crimson; one of the best.

Gloire de Margotten.—Bright red; fine buds, large flowers.

Gloria Lyonnaise.—Chamois yellow; full, sweet distinct.

Margaret Dickson.—White, shaded flesh; magnificent flower.

Magna Charta.—Pink and carmine; large, full flowers.

Mrs. John Laing.—Soft, delicate pink; free flowering.

Paul Neyron.—Large, deep rose; double and handsome.

Prince Camile de Rohan.—Dark maroon; one of the darkest.

Ulrich Brunner.—Rich, glowing crimson; large bold flowers.

OTHER VARIETIES.—If you want varieties not offered in the collections above, you can make your own selection from the bush or climbing roses listed on pages 73 to 82 at 15c each; 4 for 50c, with the exception of those priced above 40c each, which will be one-half of the two-year price.

Remember, the above plants are not for fall delivery. For large, hardy, field-grown 2 and 3-year-old rose bushes, see pages 73 to 83.

Matchless Collection Japanese Chrysanthemums

Price, 15c each; sets of 10 sorts, \$1.00 postpaid.

Charles Raser.—Elegant snow-white in-curved blooms of fine size and build. Comes on long stout stems, grandly clothed with luxuriant foliage. One of the finest new sorts.

Chrysolora.—In our field trials during the past season this variety stood out pre-eminently as the finest yellow in the collection. Large incurved flowers of elegant form.

C. H. Totty.—Large, fluffy flowers of a glowing chestnut scarlet; reverse of petals shaded gold. Finest red variety to date.

Mrs. David Syme.—Another grand incurved white variety which we esteem highly. Flowers massive with heavy broad petals interlacing in center of flower; outer petals falling in graceful manner.

Mrs. W. E. Kelly.—Flowers rich golden yellow, of massive size and build with petals very broad and heavy. Of elegant form and always on stout stems. One of the finest new yellows.

Matchless.—Largest and most beautiful dark crimson scarlet yet raised; looks like crimson velvet; the color long desired.

Mrs. Wm. Arnold.—Immense white globes as deep as wide. Petals broad, twisting and curling into a most beautiful flower. One of our finest exhibition varieties.

Pioneer.—Color a beautiful shade of Enchantress or flesh pink. Perfectly incurved flowers of remarkable waxy appearance. Sturdy grower with handsome leathery foliage. A fine thing.

Roman Gold.—In this fine variety we have secured a sort which for richness of color excels all other yellow varieties to date. Comes shaded with bronze in cool weather.

Wells Pink.—Another superb new pink variety bearing profusely large flowers of a fluffy reflexed form. Grand foliage and stem. Fine for cutting.



"Incurved" Chrysanthemum Flower.



Gloriosa Collection Giant Carnations.

Price, 20c each; set of 8 sorts, \$1.25 postpaid.

Bonora.—White ground prettily flaked with scarlet. A beautiful fancy variety.

Commodore.—A splendid new scarlet Carnation which blooms throughout a long season. Flowers large, finely formed, delightfully scented.

Gloriosa.—Colors soft pure rose, so much admired by cut flower purchasers; flowers large, well formed, fine blooming.

Pink Delight.—Crisp and beautifully formed flowers of a delicate salmon flesh color

Pocahontas.—The largest and best of its color, a bright dazzling crimson. A wonderfully free bloomer, always full of buds.

Rosette.—Producing all season large cerise-colored flowers in great freedom.

St. Nicholas.—Rich velvety scarlet, flowers in great profusion, large and fine.

White Wonder.—A beautiful pure white, of excellent texture and extreme size. Very free flowering with blooms conspicuously displayed.

Enchantress Collection Everblooming Carnations.

Price, 15c each; 12 for \$1.25 postpaid.

Afterglow.—Simply superb, both in form and color; brilliant dark pink; of immense size.

Beacon.—A bright, deep scarlet; soft, yet brilliant.

Enchantress.—Flowers extra large, on long stems. The color is a superb shade of flesh pink.

Eldorado.—A beautiful fancy sort, most distinct in color, which is a bright yellow nicely flaked and streaked with crimson.

Dorothy Gordon.—Large, rose pink flowers, exquisitely fragrant.

Lady Bountiful.—Color pearly white; very large; delicately fringed.

May Day.—Soft pink with silvery sheen, very fragrant and free.

Mrs. C. W. Ward.—Rich bright pink of glistening texture, superb free flowering sort.

President Roosevelt.—Magnificent, bright, rich crimson; large, perfectly double flowers, deeply fringed.

Victory.—Color richest shade of intense scarlet ever seen in a carnation; flowers massive.

White Enchantress.—A beautiful white sport from the famous pink Enchantress.

Winsor.—The handsomest of all pink Carnations; perfect in shape.

Beautiful Single Geraniums.

Price, 10c each; set of 12 varieties, \$1.00 postpaid.

Bellerophon.—One of the freest blooming single scarlet bedding varieties; rich, glowing scarlet, crimson maroon shading on upper petals.

E. Mollin.—Large, rosy flesh shaded to white, very distinct.

James Kelway.—A most beautiful crimson scarlet, of fine size and satiny texture.

Jacquerie.—Rich, vivid crimson; immense trusses. Excellent for bedding; blooms freely, stands the sun well and is a rarely beautiful flower.

Mad. Chapotan.—Beautiful pink upper petals, marked with white; very pretty.

Mildred Rival.—Pure rose-pink, with conspicuous white blotch on two upper petals; flower beautifully formed, and the largest of its color.

Maxine Kayolevski.—Odd shade of orange red; very distinctive, splendid bedder, vigorous, handsome, a dependable sort.

Mrs. E. G. Hill.—Very large trusses; color, clear salmon, with a white center; one of the finest and most distinctive varieties.

Mrs. J. M. Garr.—A grand single white; plants a mass of white bloom.

Mrs. A. Blanco.—Silver salmon, shaded peach; glistening texture; charming.

Sam Sloan.—Rich purple crimson variety. One of our finest dark varieties.

Tiffin.—Flowers vivid scarlet, with white eye; very attractive.

Wonder.—Rich crimson maroon, of velvety texture.



Single Geranium.

Grand Double Geraniums.

Price, 10c each; set of 12 varieties, \$1.00 postpaid.

Beaute Poitevine.—Very large, semi-double flowers of a brilliant salmon color.

Bertha Pressly.—Exquisite silvery pink, large flowers, one of the best.

Francois Magnard.—Fine, bright magenta shade, flowering very freely in large trusses.

Francis Perkins.—The grandest bright pink bedding variety to date, exquisite.

Golden Dawn.—Rich orange scarlet, the nearest approach to yellow in geraniums.

Heteranthe.—A fine bedding variety, color bright vermillion red of a most pleasing shade. Trusses very large.

John Doyle.—Very large, double bright, velvety scarlet, charming variety.

La Favorite.—Trusses very large; flowers pure snow white; a favorite.

Le Cid.—Bright scarlet, very free and a fine bedding variety.

Mme. Jaulin.—Grand, large flowers, centers are delicate pink, bordered with pure white.

S. A. Nutt.—The best of the rich, dark crimson varieties; very popular.

Alfonse Picard.—Rich velvety scarlet; extra.

Six Choice Fuchsias.

Price, 10c each; set of six sorts, 50c.

Annie Earle.—Tube and sepals waxy white; corolla single, clear carmine; plant splendid and free blooming.

Dr. Brooks.—Rich, dark blue corolla, with crimson petals. A beautiful variety; never out of bloom.

General Roberts.—Flowers very large, corolla plum color, tube and sepals crimson; one of the finest varieties.

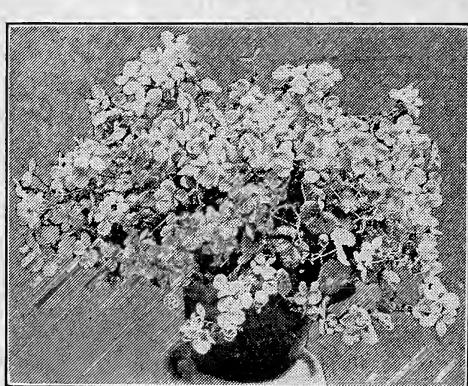
Jupiter.—This is a grand mammoth double flowered Fuchsia; flowers of enormous size, very large, rich violet corolla; tube and sepals bright crimson.

Molesworth.—Superb double white variety; tube and sepals bright scarlet; corolla large, double and waxy white; an excellent grower and profuse bloomer.

Snowstorm.—The freest flowering double white variety; extra fine.

Flowering Begonias.

Beautiful flowering plants of easy culture for the house. Each 10c; 6 for 50c, postpaid



Begonia Incarnata.

Alba picta.—A strong grower, pointed dark green leaves, profusely covered with pure white spots. Racemes of pretty white flowers for a large part of the year.

Argentea Guttata.—Handsome erect growing sort, with pointed wine-colored leaves with silvery white spots. Clusters of pure white flowers.

Cuprea.—A fine, erect Begonia, with dark, rough leaves; the panicles of unopened flowers are bright red, with surface like plush.

Foliosa.—The freest-flowering Begonia we have. Makes a handsome window plant, with its glossy green leaves and bright pink flowers.

Incarnata.—A strong, vigorous growing sort, bearing immense pendants of pretty pink flowers. A splendid winter-blooming variety for the house.

Marguerite.—Bronzy green, with purple cast; large trusses of cream and rose-colored flowers.

General Price List of Bedding Plants

Note.—"P" stands for plants from pots; "T" transplanted plants from boxes.



During April and May we have thousands of flowering and ornamental annual plants. No order too large or too small. Write for 100 prices.

Remember, we are not offering you little seedling plants, pulled from the seed beds. Our plants are strong, healthy, transplanted plants from flats or pots, raised from our highest quality seed or propagating plants of superior merit. FOR DESCRIPTIONS SEE FLOWER SEED DEPARTMENT.

	Each	Doz.	Each	Doz.
Ageratum— Blue, white or mixed, T.....	.05	.50	Blue, 3 inch pots .....	.15 1.50
Alyssum— Sweet, T .....	.05	.50	Blue, 4 inch pots .....	.20 2.25
Aster— Giant Crego (see page 49), white, pink, rose, purple or mixed, T.....	.35		Lobelia— Compacta or Trailing, T (\$3.00 100) ..	.05 .40
Other varieties, T.....	.25		2 inch pots, blooming.....	.08 .75
Candytuft— Mixed or white, T.....	.05	.50	3 inch pots, full bloom.....	.15 1.30
Mixed or white, P.....	.10	.75	Marigold— Fine Mixed, F .....	.05 .50
Carnation— White, Pink, Red, F or P.....	.10	.75	Mignonette— Sweet, T .....	.05 .60
Named varieties (see page 9).			Sweet, 2 inch pots.....	.10 1.00
Cockscomb— Mixed, T .....	.05	.60	Myosotis— Forget-me-not (clumps) .....	.10 1.50
Chrysanthemum— White, Yellow, Pink, F.....	.06	.60	Pansy— 12 in a basket, choice.....	.50 to .60
Named varieties (see page 9) P.....	.15		12 in a basket, Steel's Mastodons.....	.75 to 1.00
Cosmos— Red, Pink, White, or Mixed, T.....	.05	.50	Petunias— Irvington Beauty, new pink. Single Ruffled Giants, all colors.	
Cobea Scandens— From 2 inch pots .....	.15	1.50	Choice Double Kinds, all colors.	
From 3 inch pots .....	.20	2.00	From 2 inch pots.....	.10 1.00
Coleus— Choice colors, 2 inch pots.....	.10	.75	From 3 inch pots.....	.20 2.00
Choice colors, 3 inch pots.....	.15	1.50	From 4 inch pots.....	.25 2.50
Daisy— Mrs. Saunders, new, 2 inch pots....	.15	1.50	Ordinary Single Mixed, T.....	.05 .50
Mrs. Saunders, new, 3 inch pots....	.25	2.50	Double Mixed, T .....	.05 .60
Queen Alexandria, White— From 2 inch pots.....	.10	1.00	Phlox— Drummondii, T .....	.05 .60
From 4 inch pots.....	.20	2.25	Salvia (Scarlet Sage)— Splendens, T .....	.06 .60
Dracaenia Palm (Fountain Plant). See pg. 6.			Zurich, a Fireball, new dwarf, T.....	.07 .75
Geraniums— Single: General Grant, red; Mrs. E. G. Hill, sal- mon pink; M. Riral, deep pink; Mad. Chopatini, light pink; Mary Barton, white.			2 inch pots .....	.10 1.00
Double: S. A. Nutt, dark red; Trego, bright red; Mad. Landry, salmon pink; Mad. Buchner, double white; Ivy Leaved Trailing, pink or red.			3 inch pots .....	.15 1.50
From 2 inch pots.....	.10	\$1.00	4 inch pots .....	.25 2.50
From 3 inch pots.....	.15	1.50	Stocks— Fine Mixed Colors, T .....	.05 .60
From 4 inch pots.....	.25	2.50	Verbena— Fine Mixed, T .....	.06 .50
From 5 inch pots.....	.35	3.75	From 2 inch pots.....	.10 1.00
Hal Cain, new mammoth flowers, sin- gle bright orange red.			From 3 inch pots.....	.15 1.50
From 2 inch pots.....	.15	1.50	Vinca— Variegated, from small pots.....	.10 1.00
From 3 inch pots.....	.20	2.00	Variegated, from large pots.....	.20 2.00
From 4 inch pots.....	.25	2.50	Zinnia— Mixed, T .....	.00
Pelegonium (Lady Washington). From 2 inch pots.....	.10	1.00	PLANT BOXES. We sell boxes painted green, either empty or	
From 3 inch pots.....	.25	2.50	filled with good rich dirt and choice plants in bloom from pots.	
From 4 and 5 inch pots, specimens in bloom .....	.50 to .75		Size 3 feet Empty \$1.50 Filled \$5.50	
German Ivy— Trailing, 2 inch pots.....	.10	1.00	Size 4 feet Empty 1.75 Filled 6.00	
Trailing, 3 inch pots.....	.15	1.50	Size 5 feet Empty 2.25 Filled 7.00	
Heliotrope— Blue, T .....	.07	.60	Size 6 feet Empty 2.75 Filled 8.00	
Blue, 2 inch pots .....	.10	1.00	If you have boxes that are filled with dirt, we can furnish Fertilizer and Plants, and plant at 80¢ to \$1.00 per foot, according to kind and size of plants.	
			JAPANESE KEGS. Filled with large flowering plants and vines.	
			Size 13 in. \$3.00 to \$5.00 with Dracaena center	
			Size 13 in. 2.50 to 3.50 with Daisy center	
			HANGING BASKETS. Filled with large flowering plants and vines.	
			Size 10 in. \$2.00 to \$2.25 Delivery	
			Size 12 in. 2.50 to 3.00 25¢ extra.	

At prices above all plants go by express or freight at buyers' expense. No plants C. O. D. Write for prices by the 100 or 1000, or prices postpaid.



Hardy
Phlox.

One of our
most desirable
plants. See
page 15.

You Should Plant More Perennials

No class of plants enjoy greater popularity at the present time than the Hardy Perennials. They have made rapid strides into public favor the past few years, until now they may be considered to have a prominent and a permanent place in our American gardens. Beginning almost before the snow is off the ground, early-flowering varieties open their blossoms, as welcome harbingers of spring. Almost every week until late in the fall some new variety bursts forth into entrancing loveliness, blooming so persistently as to almost defy Jack Frost in his efforts to subdue the floral kingdom. A start may be obtained at so small an expenditure as not to be counted when measured with the satisfaction and pleasure derived from them. Once planted they are there to stay, requiring very little care, increasing in size and bloom and growing better from year to year.

VERY LARGE CHOICE PLANTS—LOW PRICES.

This year we are in a position to supply you with the most desirable, new and popular varieties at lower prices than ever. We have 25,000 extra large field-grown plants in the following varieties, also many other kinds which limited catalog space will not permit us to describe.

PRICES THIS YEAR: All perennials unless otherwise priced are 15c each, \$1.50 per dozen, by express or freight at purchaser's expense. If wanted by mail, add 5c per clump, 50c per doz., for postage.

ALYSSUM—Gold Dust

Sexatile Compactum.—Large heads of golden yellow flowers in May and June; silvery foliage; fine for rockeries; 6 inches.

ANCHUSA—Sea Bugloss

Italica (Italian Alkanet).—A strong-growing plant, 3 to 4 feet high, with broad foliage and large terminal heads of deep blue flowers the entire season.

ANEMONE—Japonica

These beautiful Windflowers are one of the most important hardy plants. They begin blooming early in August and continue in full beauty until cut down by hard frost; 2½ to 3 feet.

White, Pink or Rose.

Each 15c

New Named Varieties.—Giant double flowers, white, pink or rose.

Each 20c; doz. \$2.00

ALTHEA ROSEA—See Hollyhock, p. 14

ANTIRRHINUM—Snapdragon

Fine, hardy garden plant. Spikes of gaily colored, curiously formed flowers in great abundance. Excellent for cutting and keep fresh a long time. 2 to 3 feet. Mixed or Separate Colors.

AQUILEGIAS or Columbines

The Columbines are one of the most elegant and beautiful of hardy plants, producing their graceful spurred flowers on stems rising two feet or more above the beautifully divided foliage, and are highly prized for cutting; June to September. Mixed or Separate Colors.

ARABIS—Rock Cress

Alpina.—One of the most desirable of the very early spring flowering plants for edging and the rock garden. Forms a dense carpet, completely covered with pure white flowers. 6 inches.

Hardy Perennial Flowering Plants—Continued



Anemone.

ASTERS—New Hardy Asters

Amellus.—Grows from 2 to 3 feet. Flowers are large and are produced very freely during July and August. Red, White or Blue.

BABY BREATH—See *Gypsophila*, pg. 14

BELLFLOWER—See *Campanula*, also *Platycodon*, page 15

BELLIS PERENNIS—English Daisy

Giganteum.—Improved, double, large flowering; fine for edging or borders. Flowers extra fine. 2 inches across. Double white or pink.

BLEEDING HEARTS—See *Dicentra*

Each 10c; doz. \$1.00

BOCCONIA—Plumed Poppy

Cordata.—Enormous panicles of buff or creamy white flowers borne above large, heart-shaped leaves; July to September. 6 to 8 feet. Each 20c; doz. \$2.00

CAMPANULAS, or Bellflowers

Indispensable hardy garden flowers, of much variety of form, some being of tall and imposing habit, while others are dwarf, compact little plants suitable for edging, rockwork, etc.

Persicifolia (Peach Bells).—Large bell shaped flowers during June and July. 3 feet. Blue or white.

Medium Calycanthema (Cup and Saucer Canterbury Bells).—A beautiful form of this favorite flower. Blue, Rose, White or mixed.

Gigantea Moorheimi.—A grand sort with long stems of pure white double camellia-like flowers, 2 to 2½ inches in diameter; in bloom from the middle of May until late in July. 2 to 3 feet.

Each 25c; doz. \$2.50

CANDYTUFT—Perennial. See *Iberis*, p. 14

PRICES—All varieties, strong, field-grown plants, 15c each, \$1.50 dozen, unless otherwise priced. If wanted by mail add 5c each, 50c doz., extra.

CARNATIONS—Hardy Garden. See *Dianthus* below.

CHRYSANTHEMUM

Hardy Pompon.—The hardy Pompons are rapidly coming into general favor as bedding plants. Flowers are very double, but small compared to the Japanese, but borne in great profusion from September to frost. White, Yellow or Rose.

Japanese Fancy Varieties.—(See page 9-11.)

CHRYSANTHEMUM MAXIMUM—See *Shasta Daisy*, page 15

COLUMBINE—See *Aquilegia*, page 12

COREOPSIS

Lanceolata Grandiflora.—Popular hardy plants. The flowers are a rich golden-yellow, of graceful form and invaluable for cutting; the main crop comes during the latter part of June, but it continues in bloom the entire summer and autumn; it succeeds everywhere; 1½ feet.

DAISY—See "Bellis" for English, also "S" for Shasta Daisy

DAY LILY—See *Hemerocallis*, page 14.

DELPHINIUM—Hardy Larkspur

These are deservedly one of the most popular subjects in the hardy border, bold, attractive and highly prepossessing plants of easiest culture; perfectly hardy; 3 feet. Light or Dark Blue or mixed.

Belladonna.—The freest and most continuous blooming of all, never being out of flower from the end of June until cut down by hard frost. Flowers clear turquoise blue. Each 20c; doz. \$2.00

King.—New deep blue, double. Each 25c

Moorheimi.—White novelty. Each 60c

DIANTHUS—Hardy Carnations

Caryophyllus.—Hardy Carnation, in colors of red, white and pink. 1½ feet. Mixed.

Plumaris.—See Pinks, page 15.)

DIANTHUS BARBATUS—See Sweet William, page 15

DICENTRA—Bleeding Heart

Blooms in spring and has long, graceful racemes of rosy red flowers, with protruding white inner petals. 3 feet. Each 25c

DIGITALIS—Foxglove

Old-fashioned, hardy, desirable plants with broad foliage and showy flowers borne on spikes. June and July. 3 to 4 feet. Mixed colors.

Monstrosa (Giant Foxglove).—Handsome various-colored flowers in spikes surmounted with one large, saucer-shaped terminal flower. Each 20c

DORONICUM—Leopards Bane

One of the most effective early flowering perennials. Very large, rich yellow single flowers with on long stems during May, June and July, 2 feet. Often called Yellow Marguerite.

Hardy Perennial Flowering Plants—Continued

ERYNGIUM—Sea Holly

Handsome ornamental foliage, 2 to 3 feet. Effective in flower shrubbery border, woodlands, wild gardens, etc.; thistle-like flower heads. July to September. Each 20c

EULALIA

Japonica Variegata.—A very ornamental variety; long, narrow leaves, striped green, white and often pink or yellow.

Small plants 15c to 25c; clumps 50c to 75c each

FORGET-ME-NOT—See Myosotis

FOXGLOVE—See Digitalis, page 13

GAILLARDIA—Blanket Flower

Grandiflora.—One of the showiest of perennials. Rich and pleasing flowers ranging from red to yellow around a dark maroon center; excellent for cutting. 3 feet. June to frost.

GYPSOPHILA—Baby's Breath

Paniculata.—Minute white flowers borne in enormous quantity in open panicles during summer months. Be sure and have a few plants of this for cutting, as it works up beautifully in bouquets of other flowers. 3 feet.

Paniculata Fl. Pl.—New. Delicate double white flowers. Very pretty. Each 30c

GYNERIUM ARGENTEUM—See Pampas Grass, page 15

HELENIUM—Sneeze-wort

Very desirable border plants, succeeding in any soil in a sunny location, with broad-spreading heads of flowers, useful for cutting. Cover a long blooming season.

Riverton Beauty.—Lemon yellow, dark center. Each 20c

Riverton Gem.—New, old gold, orange red. Each 20c

Hoopesi.—Pure orange-yellow flowers, $\frac{1}{2}$ inches across, earliest to flower. June-July. 2 feet.

HELIANTHUS—Hardy Sunflowers

Multiflorus Maximus.—A gigantic single variety, 5 feet golden-yellow, August to September. One of the finest.

Multiflorus Fl. Pl.—Large, double, golden-yellow flowers in great profusion during July and August; 4 feet.

Rigidus.—Very desirable; July until fall; flowers golden-yellow with dark centers; 5 feet.

Soleil d'Or.—Deep golden-yellow, quilled petals, not unlike a Dahlia. 4 feet. August and September.

Sparsifolius.—Gracefully formed single variety, large, deep yellow color, long stems; splendid for cutting; August to September; 6 feet.

HEMEROCALLIS—Day Lily

Flava (Lemon Lily).—Three feet; May and June. Flowers clear, full, yellow; very fragrant; fine for cutting. Each 20c; doz. \$2.00.

HEUCHERA—Alum Root

Sanguinea.—Small, scarlet flowers in large, graceful panicles. One of the best of the scarlet perennials; 18 inches; June to October.

HOLLYHOCKS

Few hardy plants combine as many good qualities as the Hollyhock. For planting in rows or groups on the lawn, or for interspersing among shrubbery they are invaluable. The flowers form perfect rosettes of the most lovely shades of color. We offer strong plants, which will flower this season. White, Pink, Yellow, Bright Red or Mixed Colors.

HYPERICUM—St. John's-wort

Moserianum (Gold Flower).—Of drooping, trailing nature. Fine for rockeries, etc. Free flowering. Rich golden-yellow. June to frost. Each 15c; large plants, 25c

IBERIS—Hardy Candytuft

Sempervirens.—Most desirable dwarf plants with evergreen foliage, which is completely hidden with dense heads of white flowers early in the spring. Yellow or Lavender. Each 20c

IRIS—See page 63

LARKSPUR—See Delphinium, page 13

LUPINUS—Lupine

Polyphyllus.—An effective plant, producing large long spikes of blue flowers. June. Each 20c

Roseus.—A very pretty variety with rosy-pink flowers. Very effective. 3 feet, June. Each 20c

LYCHNIS—Campion

Of the easiest culture, thriving in any soil. In high favor with lovers of hardy plants. Sometimes called Devil's Flower, Gardener's Delight, Gardener's Eye, Jerusalem Cross, Lamp Flower, Maltese Cross, Ragged Robin, etc.

Chalcedonica.—A most desirable plant, heads of brilliant orange-scarlet. Grows 2 to 3 feet high and blooms all summer.

MYOSOTIS—Forget-Me-Not

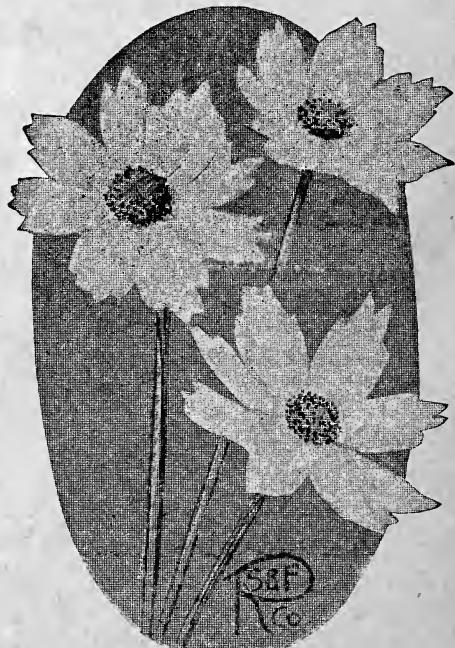
Palustris.—A variety that is hardly ever out of flower; useful in a shady spot in the border.

PAPAVER—Hardy Poppy

Nudicaule (Iceland Poppy).—A beautiful race and among the most desirable of our herbaceous plants. The plant forms tufts, of fern-like foliage, from among which the slender flower-stalks rise to about a foot in height and bear fragrant, cup-shaped flowers of white, yellow and orange-scarlet. The profusion of blooms is astonishing. June to October

Orientalis.—Bright scarlet with a black blotch at the base of each petal. June to July. Each 20c

Oriental Bracteatum.—Dark red. Each 20c



Coreopsis Lanceolata.

PRICES: All varieties, strong field-grown clump, 15c each, \$1.50 dozen, unless otherwise priced. If wanted by mail, add 5c each extra, 50c dozen.

Hardy Perennial Flowering Plants—Continued

PENTSTEMON—Beard Tongue

Most useful showy perennials, 3 feet. For the border or rockery. Bear long, loose spikes of beautiful, bright trumpet-shaped flowers. *Hybrida* mixed.

PAMPAS GRASS

A noble ornamental grass, easily grown, producing long, narrow pointed leaves and majestic, silvery white plumes, which are very valuable for winter decoration. Grows 6 to 8 feet high.

Gynoerium Argenteum.—Young plants, 15c to 25c; strong roots, 35c to \$1.00; large specimen plants, \$1.50 to \$2.50 up.

PHLOX

Decussata.—Among the hardy perennial plants no class is of more importance than the Phloxes, succeeding in almost any soil and position, and flowering through a long season. Excellent for cutting and decorating or for mass effects. Keep well in water. (See cut, pg. 12.)

Mixed Colors. Each 15c; doz., \$1.50 postpaid

Choice Named Varieties

Each 15c; doz. \$1.50 postpaid.

Bridemaid.—White with pink eye.

Coquelicot.—Pure scarlet, crimson eye.

Champs Elysee.—Bright rose magenta.

Mrs. Lingard.—White.

Von Goethe.—Tyrian rose, suffused carmine.

Obergartner Wittig.—Bright magenta, crimson eye; large flowers of finest type.

Extra Selected Varieties

Each 20c; doz. \$2.00 postpaid.

Mrs. Jenkins.—Immense white flowers.

Gen. van Hentsz.—Brilliant salmon-red, white eye.

R. P. Struthers.—Bright rosy-carmine, red eye.

Eugene Danzenvillier.—Lilac, shading to white.

Gruppenkoenigin.—Beautiful salmon.

Henry Pleiderer.—Elegant salmon pink.

Other Hardy Varieties

Subulata (Moss, or Mountain Pink).—An early spring flowering type, with pretty moss-like evergreen foliage, which, during the flowering season, is hidden under the masses of bloom. An excellent plant for the rockery, the border, and invaluable for carpeting the ground or covering graves.

Pure White, Lavender, Purplish White, Bright Rose, or Mixed. Each 15c; doz. \$1.50 postpaid

Amoena.—Best for carpeting the ground, the rockery or the border; it grows but 4 inches high, and in spring is a sheet of rich, bright pink flowers. Each 15c; doz. \$1.50

Divaricata Laphami.—Worthy of extensive planting, commencing to bloom early in April, and continuing through May; large, fragrant lavender flowers on long stems. Each 15c; doz. \$1.50

PINKS—Dianthus

Plumaris.—Bearing sweet clove-scented flowers in the greatest profusion during May and June. Indispensable for the hardy border and for cutting. 1 foot.

Finest colors. Mixed.

PRIMULUS—Primrose

The hardy primroses are among the most beautiful and interesting of our early spring flowers.

Veris (English Cowslip).—Of the richest shades, from pure yellow to the deepest crimson maroon.

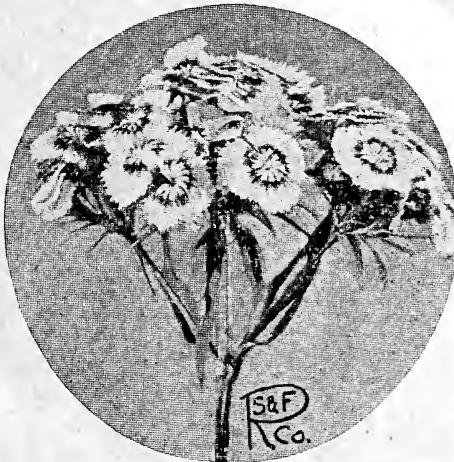
Vulgarus.—Canary yellow, very early and fragrant.

PYRETHRUM—Persian Daisy

Too much can not be said in favor of this grand hardy perennial. Flowers single daisy-like in form and borne in profusion. June to fall, 3 feet. Splendid for cutting, lasting a week in good condition.

Hybridum.—All colors.

ROCK CRESS—See Arabis, page 12



Sweet William.

RUDBECKIA—Cone-flower

Indispensable plants for the hardy border; grow and thrive anywhere, giving a wealth of bloom, which are well suited for cutting.

Lancineatus (Golden Glow).—Flowers beautiful golden-yellow; very double. Marvelous continuity of bloom from June till late fall. 6 to 8 feet.

Fulgida.—Brilliant orange-yellow flowers produced in masses on much branched plants. 2 feet. July to September.

SHASTA DAISY

Chrysanthemum Leucanthemum Daisy.—Very large, daisy-like flowers, often measuring 4 inches across. Three or more rows of petals of the purest paper white and borne on single, stiff stems. 2 feet.

Postpaid 10c, 15c and 20c each

STATICE—Sea Lavender

Incarnata.—Valuable plants for the border and rockery, with tufts of leathery foliage and immense candelabra-like panicles of minute flowers in all colors, producing a remarkable effect; 18 inches high. June to September. Mixed. All colors.

SNAPDRAGON—See Antirrhinum, p. 12

SUNFLOWER—See Helianthus, p. 14

SWEET WILLIAM—Dianthus Barbatus

This fine old-fashioned flower is always desirable and makes a fine show in bloom, June to September. The new improved types are rich and charming. White, Salmon, Dark Red or Chinese Mixed.

TRITOMA—Red-Hot Poker

The early, free and continuous blooming qualities of the newer varieties have made Tritomas one of the great bedding plants. 3 to 4 feet flower spike.

VALERIANA—Spurred Flower

Coccinea.—Showy heads of rosy pink, flowers from June to October. 2 feet.

VIOLETS

California.—Single. Very showy and beautiful.

Double Russian.—Flowers double of gigantic size; color, a very rich shade of blue, and extremely fragrant.

Small Plants, single or double and blue or white. 10c each; \$1.00 per dozen

WALLFLOWERS

The old favorite fragrant Wallflower; mixed colors including yellow, dark brown, etc. Each 20c

YUCCA—Adam's Needle. See page 92.

REMEMBER: All prices on above stock is 15c each, \$1.50 dozen (unless otherwise priced) and is for large 2-year, field-grown clumps, that will bloom profusely the first season. Postage, 5c each, 50c dozen extra.

ASPARAGUS ROOTS.

One of the earliest and finest of spring vegetables; very easily grown. A bed once planted is good for years if properly attended to and well manured. Set plants 18 inches apart, in rows 3 feet apart.

ONE YEAR OLD

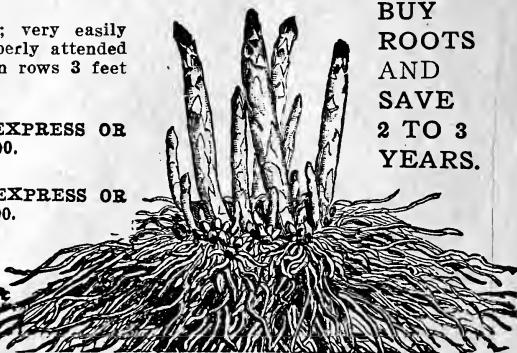
POSTPAID, dozen 25c; 50, 75c; 100, \$1.00. BY EXPRESS OR FREIGHT, dozen 20c; 50, 50c; 100, 75c; 1000, \$6.00.

TWO YEAR OLD

POSTPAID, dozen 40c; 50, \$1.00; 100, \$1.50. BY EXPRESS OR FREIGHT, dozen 25c; 50, 75c; 100, \$1.00; 1000, \$8.00.

HOP VINES.

ENGLISH CLUSTER (the best sort).—Strong roots, postpaid, 5c each, 40c per dozen. By express 25c per dozen, \$1.50 per 100. Low prices by the thousand.



Asparagus

HORSE-RADISH ROOTS

This useful condiment is easily grown, and prefers a rich, moist loam. Plant in rows 18 inches apart, putting the sets one foot apart, being careful to place the thin end down in the ground. Postpaid 5c each, 40c per dozen. By express or freight, 25c per dozen, \$1.50 per 100. Low prices by the thousand.

RHUBARB OR PIE PLANT ROOTS

(WINE PLANT)

Set roots 3 feet apart in rows 4 feet apart, in the richest ground you have or can prepare.

MAMMOTH OR GIANT.

ONE-YEAR-OLD ROOTS, Postpaid, each 8c; dozen 75c. BY EXPRESS OR FREIGHT, dozen 50c; 100, \$3.00.

TWO-YEAR-OLD ROOTS, Postpaid, each 15c; dozen \$1.50. BY EXPRESS OR FREIGHT, dozen 75c; 100, \$5.00.

If wanted in larger quantities, write for special prices.

BURBANK'S CRIMSON WINTER.

Very Early, Prolific, Vigorous.—This new variety has created a great sensation and proved to be very valuable, especially in California. We believe it will grow anywhere equally as good as the common sorts but to obtain its highest state of perfection and yield, it should be planted in a warm location. The stalks are of medium size, a brilliant crimson and of the very best quality. If kept moist it will produce stalks abundantly at any season. It is, in fact, absolutely perpetual.

PRICE, SMALL ROOTS, each 20c; dozen \$2.00, postpaid. BY EXPRESS OR FREIGHT, dozen \$1.75. LARGE ROOTS, each 25c; dozen \$2.50 postpaid; BY FREIGHT, \$2.00.



VEGETABLE PLANTS.

We grow large quantities of choice vegetable plants, and can supply all of the varieties listed below, in their proper season, in most any quantity. We can supply all vegetable plants in two grades—plants direct from the seed beds and those that have been transplanted into shallow boxes. Transplanted plants are much stronger and better rooted, and are well worth the price, especially in the early part of the season. We can supply most any of the leading sorts. Tell us your choice of varieties, and we will send it or give good substitute. NO PLANTS SENT C. O. D.

Postpaid By Express
Dozen 100 1000

CABBAGE

Early or late kinds, transplanted	\$0.20	\$1.00	\$7.50
Not transplanted .....	.60	5.00	
Add 25c per 100 for Cabbage Plants by mail.			

Postpaid By Express
Dozen 100 1000

PEPPER

PEPPER PLANTS30	1.00	7.00
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CAULIFLOWER

Early Snowball, transplanted...	.30	1.50	12.00
Early Snowball, not transplanted	.25	1.25	10.00
Late kinds, transplanted.....	.30	1.25	10.00
Late kinds, not transplanted...	.25	1.00	7.50
Add 25c per 100 for Cauliflower Plants by mail.			

SWEET POTATO PLANTS

SWEET POTATO PLANTS30	1.00	7.00
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Add 25c per 100 for above plants by mail.

TOMATOES

Leading kinds, transplanted...	\$0.35	\$1.25	\$10.00
Not transplanted .....	.75	7.00	
Add 40c per 100 for Tomato Plants by mail.			

Special—Pot-grown tomato plants; large and strong; from 2½-in. pots; 10c each; \$1.00 doz.; 3-in. pots, 15c each, \$1.50 doz.; 4 to 5-in. pots, 25c each, \$2.50 doz.; must go by express.

CELERY

Leading kinds, transplanted....	.25	1.00	7.50
Not transplanted .....	.75	6.00	
Add 25c per 100 for Celery Plants by mail.			

CHIVES

CHIVES (Schnittlauch)—Per bunch, postpaid, 25c.

NOTE—Special Low Prices on Vegetable Plants in 5, 10 or 20 M. lots—Write.

ROUTLEDGE SEED & FLORAL CO'S

Highest Quality VEGETABLE SEEDS

We catalog only the very best varieties of both the newer and the older strains, those that are especially adapted to the peculiar conditions on the Pacific Coast. We have indicated by using larger, heavy-faced type the varieties that are the very best of their class. They are the varieties recommended by us.

ARTICHOKE

LARGE GREEN GLOBE.—The well-known French vegetable; the undeveloped flower heads, when properly prepared, make a most delicious dish.

Pkt. 10c, oz. 35c, 4-oz. \$1.00

White French.—Grown for stock. See page 43.

ASPARAGUS

You save time by planting Asparagus Roots. (See page 16.)

COLUMBIAN MAMMOTH WHITE.—Gives immense yield of large, clear, white shoots; very tender and of excellent flavor. Pkt. 5c, oz. 10c, 4-oz. 25c, lb. 75c

PALMETTO.—Early, prolific and uniformly large; light green. Pkt. 5c, oz. 10c, 4-oz. 25c, lb. 70c

CONOVER'S COLOSSAL.—A good, standard sort of approved quality. Pkt. 5c, oz. 10c, 4-oz. 25c, lb. 60c

BEANS

Dwarf or Bush—Yellow Podded

When ordering Beans by mail, add 10c per pound to cover postage.

DAVIS KIDNEY WAX.—The most hardy and productive wax bean. The pods are long, white, straight, crisp and tender. The vine is rustless and very vigorous, bearing the pods in clusters. For canning this is unexcelled on account of purity of the pod and bean. It is a remarkably good variety for shipping; seed white, and on this account is desirable for a shelled bean in winter.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.40

WARDWELL'S KIDNEY WAX.—A hardy, strong-growing vine; handsome, long podded variety. A few days later than Golden Wax; pods long, golden-yellow, brittle and entirely stringless; seed white, with dark markings about the eye. Market gardeners find this bean one of the most profitable.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.25

IMPROVED GOLDEN WAX.—One of the most popular garden varieties in cultivation. Pods are long, nearly straight, broad and flat, and golden-yellow; seed white, more or less covered with two shades of purplish red.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.35

PROLIFIC BLACK WAX.—An improvement on the old Black Wax or Butter Bean. Very vigorous and prolific; pods fairly long, golden-yellow, very brittle, and stringless; seed black.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.40.

Market Gardeners who buy Beans or any other Seeds in quantity should write for prices, stating kind and quality wanted. Our Seeds are "Highest Quality."

BEANS—Continued

Dwarf or Bush—Green Podded Kinds

If ordering by mail, add 10c per pound for postage.

STRINGLESS GREEN POD.—The finest green pod, stringless bean. The earliest and hardest of all green-podded sorts. The plants are very productive, bearing profusely the beautiful green pods, which are perfectly round, long, almost straight, very tender, brittle, of the finest flavor; very fleshy and entirely stringless. Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

DWARF HORTICULTURAL.—One of the best varieties for shell beans. Pods very handsome, being yellowish and thickly splashed with bright crimson. Very productive. Large pkt. 10c, lb. 20c, 10 lbs. \$1.40

LONG YELLOW SIX WEEKS.—A very productive, extra early variety with long, straight, thick pods. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

Earliest Red Valentine.—One of the earliest. Round pods, crisp and tender and of medium length. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

Extra Early Refugee.—A very early medium-sized green podded bean of excellent quality. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

Broad Windsor.—The largest and best of this class. Broad, flat beans of delicious flavor. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

LADY WASHINGTON (For Dry Beans).—Sturdy, bushy plant, erect habit. A great improvement over the old "Navy," being much earlier, a little larger, and a very heavy yielder, especially adapted to our Western soils, and is entirely free from disease. The pods all ripen together and early enough to harvest before winter rains. Large Pkt. 10c, lb. 15c, 10 lbs. 85c

Castor Bean.—Used for medicinal purposes and by some claimed to keep moles away. Large Pkt. 10c, lb. 40c

Climbing or Pole Beans

Improved Kentucky Wonder (Asparagus).

A very popular variety; often sold as asparagus. By far the best green podded pole variety. Pods green, very long, round and perfectly stringless. Enormously productive and earliest. Unsurpassed for the table, being very tender and of delicious flavor.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.25

WORCESTER POLE.—The finest Pole Shell Bean in cultivation, and on account of its wonderful productiveness and superior quality takes first rank as a Pole Shell Bean. The strain we offer is an especially fine one. The long, thick pods are brilliantly colored with crimson carmine, and are borne in clusters. Unequaled for tenderness and delicious flavor. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

EARLY GOLDEN CLUSTER WAX.—A very popular, early and fine variety; pods golden yellow, long, wide and flat, borne in clusters, of fine quality and remain in condition to use for a long time; seed flat and dull white. Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

Dutch Case Knife.—Early, very productive and of fine flavor; long, flat, green pods, turning white; beans broad, flat and kidney-shaped. Large pkt. 10c, lb. 20c, 10 lbs. \$1.25

Scarlet Runner.—Grown extensively for ornamental purposes, as flowers are a most brilliant scarlet and borne profusely; beans are broad and flat, and of fine flavor when cooked. Large pkt. 10c, lb. 25c

Indian Chief (Pole Black Wax).—White, fleshy pods, not very long, and excellent as snap beans; very tender and perfectly stringless. The best of the Pole Butter Beans. Large pkt. 10c, lb. 15c, 10 lbs. \$1.25

Pole Lima Beans

King of the Garden Lima.—The largest podded variety and very productive; vines very vigorous, often producing pods six to seven inches long, containing five or six large beans; of fine flavor.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

EARLY LEVIATHAN.—One of the newer varieties and the very best pole variety in cultivation; vine very tall and strong; pods long and borne in clusters; beans large and white; is early, strong-growing and prolific.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

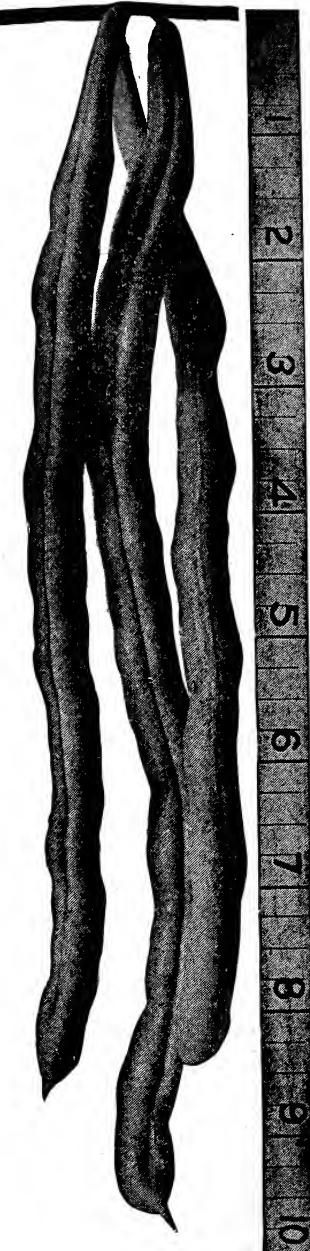
Dwarf or Bush Lima

Burpee's Bush Lima.—The best late dwarf variety; plant 18 to 24 inches high; very prolific; pods large, and the beans also large and heavily ribbed; will bear until stopped by frost.

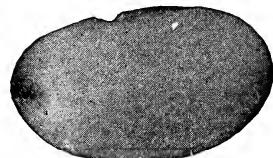
Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

HENDERSON'S BUSH LIMA.—Fully two weeks earlier than any other variety. Plant about sixteen inches high, and very prolific; beans small; especially recommended where the season is short.

Large pkt. 10c, lb. 20c, 10 lbs. \$1.50



Kentucky Wonder.
Asparagus.



Lima Bean
(Shelled.)

For Garden Tools, See
Pages 108-113.

Market and Truck Gardeners should write us for special prices and state quality and kinds wanted. We'll save you money and you get quality.

BEETS

ROUTLEDGE FAVORITE

A select strain, very early. Perfectly globe shaped, with a single tap root, and of the richest color of any of the beets. It is a splendid keeper, is not excelled in yielding qualities by any other sort, is exceedingly tender, fine and sweet and is unequalled for table use. Market gardeners will find our Favorite a very profitable variety to grow, as no other sort approaches it in attractiveness or quality.

Pkt. 10c; oz. 20c; 4-oz. 50c; lb. \$1.50

CROSBY'S EGYPTIAN.—Very popular early beet, as it reaches the desired size quickly. The beets are of good size, rather flat than round, and flesh dark.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

EDMAND'S BLOOD TURNIP.—Unsurpassed for late planting; deep blood-red flesh, very tender and juicy, runs very evenly in size and quite round; grows a small top; leaves dark red with dark midrib.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

IMPROVED EARLY BLOOD TURNIP.—An extra selected stock of blood turnips, having larger, coarser tops and roots than the Detroit Dark Red, and requiring a considerably longer time to mature; excellent for summer and autumn.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

Detroit Dark Red.—Excellent variety, nearly globular, dark skin and dark flesh, zoned lighter; maturing early and keeping crisp and tender for a long time.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

LONG BLOOD.—The root is smooth and handsome, flesh brilliant in color and excellent quality. Good keeper.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

Half Long Blood.—Becoming more and more popular. Excellent in shape and quality, yields well.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

Swiss Chard (Sea Kale).—Cultivated largely for its broad leaf stalks.

Pkt. 5c; oz. 15c; 4-oz. 35c



Routledge Favorite Beet.

STOCK BEETS

Mangels and Sugar Beets

Price of all the following varieties:

Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 50c, postpaid
10 lbs. and upwards (purchaser paying transit), 30c per lb.

Danish Sludstrup

An improved variety, considered one of the best. Awarded first class certificate. Color reddish-yellow and of a distinct type. It is very hardy, grows well above ground; is easily pulled and very nutritious.

Giant Red Eckendorf

Another new mangel of great merit. The roots are smooth, long and cylindrical in shape, very heavy, weighing up to 15 and 20 pounds each; grow two-thirds above ground. The flesh is firm, crisp and solid, white in color and of high feeding value.

GIANT HALF SUGAR MANGEL.—A new variety, very much more valuable for feeding purposes than the old sorts, it being very much richer. Yields as much per acre as the best Mangels, and twice as much per acre (bulk of roots) as the rich sugar beet. Roots long and thick and large, very smooth, with few rootless and creamy white in color, with medium-sized top.

IMPROVED MAMMOTH LONG RED.—Very popular and much used. A large and heavy cropper. Dark red skin, with whitish flesh; grows one-half or more above the surface; roots quite regular; attain a very large size.

GOLDEN TANKARD.—An enormous yielder of weight per acre, and at the same time very nutritious; flesh deep yellow; of fine shape, growing largely above soil, thus being easily harvested.

French White Sugar.—The sugar beet most generally grown, as it combines, with heavy yield, from 10 to 13 per cent of sugar.

Klein Wanzleben.—This is the variety which is considered best in Germany for producing sugar, and is now taking the lead in this country for this purpose.



Giant Half Sugar Mangel.

BROCCOLI

One ounce will produce about 2000 plants.
WHITE CAPE.—Resembles cauliflower; very white and sure to head. Pkt. 10c; oz. 35c; 4-oz. \$1.00
Purple Cape.—Large heads, which are tinged with purple. Pkt. 5c; oz. 35c; 4-oz. \$1.00

BRUSSELS SPROUTS

One ounce sufficient for a seed bed 6 feet square or two sashes. Will produce about 2000 plants.
AIGBURTH.—The finest variety of all the Brussels Sprouts; very large and of superior quality. Pkt. 5c; oz. 15c; 4-oz. 40c

"Highest Quality"

Our Cabbage Seeds come from the world's best growers—pure, true strains, of highest quality. One ounce will produce over 2000 plants. One-quarter pound of seed will produce plants sufficient for one acre, therefore, don't practice false economy by buying low-priced, low-quality seed.

EARLY JERSEY WAKEFIELD

The earliest and hardest heading of first early cabbages. Most gardeners depend upon it for the bulk of their extra early crop. Its exceeding hardiness not only to resist cold but other unfavorable conditions, insures the greatest likelihood of profitable and satisfactory results. Our stock is grown and selected with the greatest care; there is none better, and few as good. Head conical, very compact, solid and of excellent quality. The thick, stout leaves and compact habit of the variety make it the best sort for very early setting. **HIGHEST QUALITY SEED.** Pkt. 5c; oz. 25c; 4-oz. 75c; lb. \$2.50.

COPENHAGEN MARKET—New

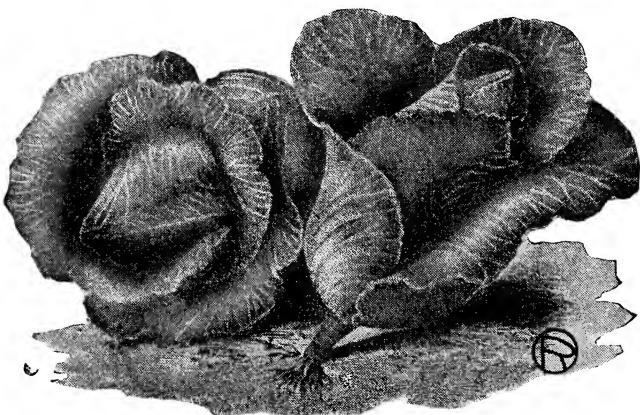
The earliest large round-headed cabbage yet introduced. The heads are of exceptionally large size for so early a variety. The plant is of vigorous habit but compact, with short stem and few outer leaves which are of rather upright growth. The leaves are medium light green, nearly round, comparatively thick and smooth. The heads are round, very solid and of exceptionally good quality. Its earliness, compact growth, uniformity and size of head, firmness and most excellent quality combine to make Copenhagen Market the most valuable cabbage of recent introduction. We recommend it unreservedly both for the home garden and the market gardening trade. (See cut.) Pkt. 10c; $\frac{1}{2}$ oz. 30c; oz. 50c; 2 oz. 75c; $\frac{1}{4}$ lb. \$1.25.

EARLY YORK.—A small, early, conical heading cabbage. Has been very popular.

Pkt. 5c; oz. 20c; 4-oz. 60c; lb. \$2.00

CABBAGE

True and Pure



Early Jersey Wakefield.

R. S. & F. Co's Oregon Wakefield

A new most remarkable and valuable strain of Wakefield. It has the same general characteristics of other Wakefield cabbages, the heads being conical with a rounded or blunt point. It is, however, far superior to other strains, being nearly double the size and of better quality, and at the same time is fully as early. It has few outer leaves, permitting close planting.

Pkt. 10c; oz. 30c; 4 oz. 90c; lb. \$3.00

EARLY WINNIGSTADT.—One of the best for general use, being very hardy and sure to head. Owing to its compact and upright habit of growth and peculiar texture of short, thick leaf, the variety seems to suffer less from the cabbage worm than most other sorts. Head regular, conical, very hard and keeps well both summer and winter. It is the hardiest, not only as regards frost, but will suffer less from excessive wet, drought, insects or disease than any other second early sort.

Pkt. 5c; oz. 20c; 4-oz. 60c; lb. \$2.00

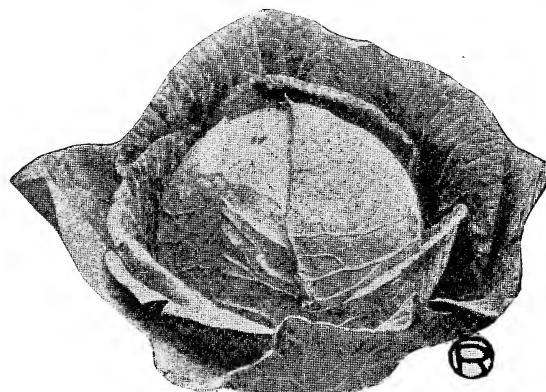
EARLY SPRING

Our strain of this variety is from extra selected stock, and we believe it to be unequaled by any other. It is the first early round-head cabbage, maturing about the same time as Jersey Wakefield. One of its chief claims to superiority is the remarkable uniformity of the heads. They are also very solid, even when young, and with very small outside leaves.

Pkt. 5c; oz. 20c; 4-oz. 60c; lb. \$2.00

"Wonder" Odorless Fertilizer

Use a spoonful of "Wonder" to each cabbage plant, and you will have the best cabbage you ever raised. It's the greatest fertilizer ever prepared for vegetable and flower gardens. Only 25c a package. See pg. 47.



Copenhagen Market.

CABBAGE PLANTS.—During planting season we aim to have on hand large quantities of Cabbage and Vegetable Plants. See pg. 16.

DANISH BALL HEAD OR HOLLANDER

GENUINE DANISH GROWN STOCK.

Most remarkable late cabbage yet produced, heads hard and solid—fine grained and tender. Entirely distinct. Exceedingly hardy in resisting cold and dry weather. We offer true, pure seed of the very finest short stemmed type.

Famous for its hard-heading qualities, which at once recommends it as highly valuable for shipping. The magnificent heads are round in form and keep in excellent condition during winter, coming out in the spring perfectly solid.

Pkt. 10c; oz. 25c; 4-oz. 90c; lb. \$3.00

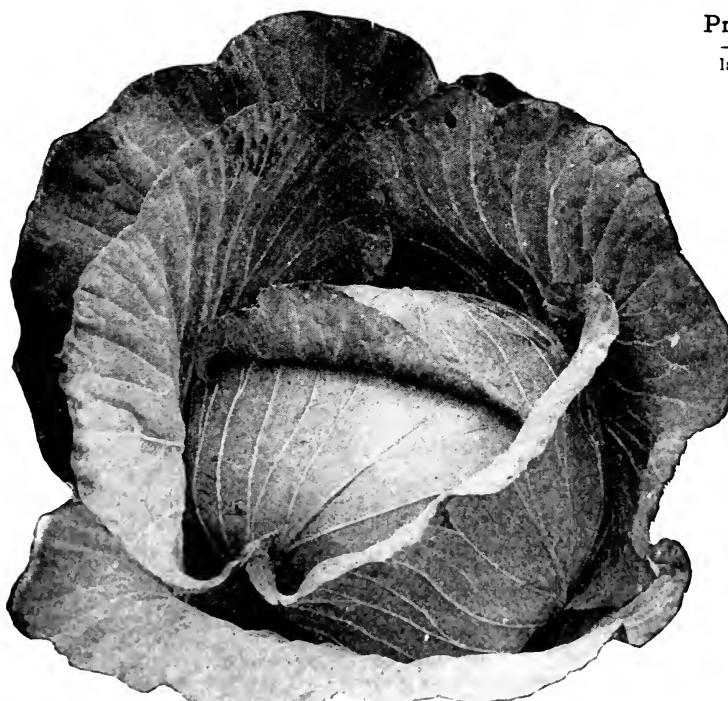
PERFECTION DRUMHEAD SAVOY.—

A variety that is much prized in Europe, and also by those who are familiar with it in this country. It is very sweet and crisp, and always tender. Heads medium size and compact, with densely and uniformly crimped or savoy leaves.

Pkt. 5c; oz. 20c; 4-oz. 75c; lb. \$2.25



FOR WEEDERS,
TROWELS, ETC.,
See Garden Tools,
pgs. 108 to 113.



Premium Late Flat Dutch.

Forest, Wash, May 8, 1913.

Routledge Seed & Floral Co.

Gentlemen: My garden is doing fine from your seeds.

Yours truly,
ELMO KAYLOR.

Premium Late Flat Dutch.

—A low-growing variety; heads large, bluish green; round, solid, broad and flat on top; an excellent fall and winter variety, and a good keeper. It is a sure header. Our stock has been grown from carefully selected heads, and we consider it superior to any other strain of Flat Dutch cabbage on the market.

Pkt. 5c; oz. 20c; 4-oz. 75c;
lb. \$2.50.

MAMMOTH ROCK BED.—Best hard-headed, red variety; large heads, globular, and very deep red on top; outer leaves greenish; especially used for pickling.

Pkt. 5c; oz. 20c; 4-oz. 75c;
lb. \$2.25.

Bug Death

kills all leaf-eating insects; excellent for using on cabbage. Can be used either dry or in water. See description, pg. 107; also dusters and blowers, pg. 105.

Hood River, Ore., May 13, 1913.
Routledge Seed & Floral Co.

Gentlemen: I have sent for a good many years to you, and have been well satisfied.

Yours respectfully,
MRS. E. LOCKE.

CHICORY

One ounce is sufficient for a bed of 4 square yards.
Large-Rooted, or Coffee.—Leaves, when blanched, make an excellent salad.

Pkt. 5c; oz. 10c; 4-oz. 30c

CHERVIL

One ounce sufficient for 100 feet of drill.
Curled.—An aromatic herb, resembling parsley, and useful for flavoring in soups and salads.

Pkt. 5c; oz. 10c; 4-oz. 30c

"Highest Quality"**CAULIFLOWER****Plants in Season****ROUTLEDGE'S "SNOW WHITE"**

In competition with all other strains, this Cauliflower has won the approval of critical gardeners, being the earliest and best sort grown. It is suitable not only for early use, but is superior for late planting. The heads are hard and solid, and do not spread as do some of the inferior sorts. No other equals it in purity of color, being clear snow white. It is equally desirable for family use and for the market garden. The heads are large—from 9 to 12 inches in diameter. On account of its close growing, compact habit, many more plants may be grown on a given area than of the late spreading sorts.

Pkt. 25c; 1/4-oz. 75c; 1/2-oz. \$1.25; oz. \$2.50

Early Snowball

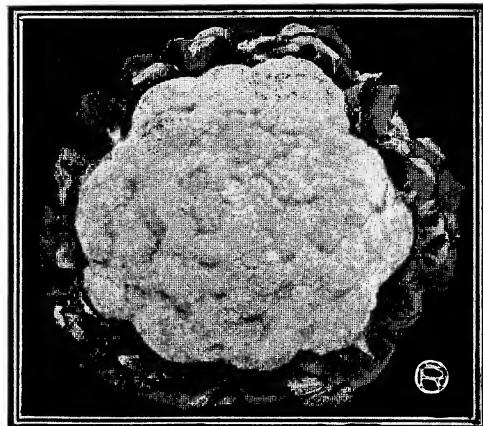
This variety is much in demand by market gardeners for main crop. Its earliness, compact habit, large-sized heads and snow-white color recommend it to every grower as a variety of especial merit. We have an extra selected stock of this sort, and recommend it with the greatest confidence.

Pkt. 15c; 1/4-oz. 65c; 1/2-oz. \$1.15; oz. \$2.00

NEW CALIFORNIA WONDER.—A late variety, forming good, large, solid heads during the winter. This variety has given great satisfaction in Oregon and California, wherever tried.

Pkt. 10c; 1/4-oz. 25c; oz. 75c; 1/4-lb. \$2.25

ALGIERS.—A very popular late variety; with large heads. Pkt. 10c; 1/4-oz. 50c; oz. 75c; 4-oz. \$2.25



Routledge Snow White,

VEITCH'S AUTUMN GIANT.—A large, late variety, very hardy. The heads are well protected by the foliage, enabling it to resist unfavorable climatic conditions.

Pkt. 50; 1/4-oz. 15c; oz. 60c; 4-oz. \$1.75

CARROT

FRENCH FORCING.—A very popular variety for forcing. The root is globe-shaped, with distinct tap root; color bright orange-scarlet.

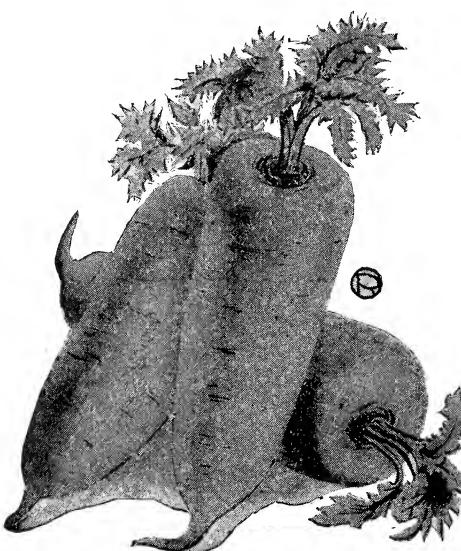
Pkt. 50; oz. 150; 4-oz. 50c; lb. \$1.25

EARLY SCARLET HORN.—An excellent variety for early forcing; grows with a small top; is very fine grained and of good flavor.

Pkt. 5c; oz. 150; 4-oz. 40c; lb. \$1.00

CHANTENAY.—The Market Gardener's Favorite.—Tops medium sized, necks small, roots tapering slightly, but uniformly stump-rooted and smooth; color deep orange-red; flesh very crisp and tender; medium early; a heavy cropper.

Pkt. 50; oz. 10c; 4-oz. 30c; lb. 75c



Routledge Model

Improved Short White.—A good field carrot, enormously productive, easily harvested; roots half long, heavy at the shoulder, but tapering regularly to the point; color light green at the crown, white below; flesh rich, white, solid, and of good flavor.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 65c

ROUTLEDGE MODEL

The finest early table variety grown. Handsome, meltingly tender and sweet.

This new carrot will no doubt prove to be one of the most popular varieties. You will be delighted with the melting tenderness and sweet, mild flavor of Routledge Model.

It is a half-long cylindrical carrot, blunt pointed, with a small tap root and small top. They run very uniform in shape and grow just the right size. The flesh is of fine texture, entirely devoid of stringiness, coarseness and woody heart orange so attractive when served.

Pkt. 10c; oz. 20c; 4-oz. 50c; lb. \$1.50

DANVER'S HALF-LONG IMPROVED.—A great favorite; big cropper; the roots are smooth and handsome, medium size, tapering uniformly to a blunt point and of a rich, dark orange; fine for table or stock feeding.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

GUERANDE, OR OXHEART.—Bright orange, broad at the top and terminates abruptly in a small tap root. Length about 5 to 6 inches; very fine grained and sweet. Excellent for shallow soils.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

LONG ORANGE IMPROVED.—The best of the long carrots, especially for stock; color bright orange, with long, tapering roots, requiring a deep soil.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 85c

ROUTLEDGE MAMMOTH STOCK

The heaviest cropping carrot grown, yielding more tons to the acre than any other sort. The flesh is yellowish-white, crisp and solid, and very sweet in flavor. It is a vast improvement on the Belgian sorts, which have been favorites in the past, as it is not only much more productive, but vastly easier to handle. The roots are short and very heavy at the shoulder, rendering them easily harvested. Too much can scarcely be said of their size and great productiveness. The roots frequently measure 15 to 20 inches in circumference, and 18 to 40 tons to the acre is not an extravagant statement as to yield. Large pkt. 10c; oz. 15c; 4-oz. 40c; lb. \$1.25; 2 lbs. enough for 1 acre, \$2.25.

Large White Belgian.—Extensively grown for stock feeding; roots pure white, green above ground and growing to a large size; flesh rather coarse.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. \$75c

"Highest Quality"

CELERY

Plants in Season

NOTE.—We are offering only the VERY BEST STRAINS of Celery Seed. Low-priced Celery Seed is very disappointing and practically worthless. Don't buy it.

R. R.'S WHITE PLUME

Our leading White Celery.

A handsome, crisp sort, of very easy cultivation. Naturally its stalks and portions of inner leaves and heart are white, so that by closing the stalks, either tying or by simply drawing the soil up against the plant and pressing it together, the work of blanching is completed without the troublesome process of "banking" or "earthing up." It is the earliest celery known, delicious and fine flavored.

Pkt. 10c; oz. 30c; 4-oz. \$1.00; lb. \$3.00

PARIS, GOLDEN SELF-BLANCHING

The finest strain of French grown seed.

This splendid variety is without doubt the most popular celery grown. It is a self-blanching sort, for with a little banking or covering, even the outer ribs assume a beautiful golden yellow, while the heart or vine stalks are deliciously tender, brittle and sweet. This variety is being very extensively grown both for market and private use, not only on account of its ease of cultivation, but for its superior quality. It is not quite so early as the White Plume, but is of heavier and more compact growth, the stalks being thick, crisp and brittle. The hearts are large and solid, blanching a beautiful waxy yellow. It is tender and sweet and free from stringiness. Its flavor is rich and delightful. Our Private Stock Seed is procured from a noted celery grower in France, and is very superior.

Select quality: Pkt. 20c; ½-oz. 85c; oz. \$1.50

Golden Yellow Self-Blanching.—Same variety of celery as above, but is American grown. It is equal to most seeds offered, but not as true, dependable or of such high quality as the French grown stock.

Pkt. 10c; oz. 60c; 4-oz. \$2.00

GIANT PASCAL.—Excellent for fall or winter use, and has increased in popularity every year. A large, tall grower of the finest nut flavor, being free from any bitter taste. Very broad stalks, blanching very quickly with little banking up; an admirable keeper.

Pkt. 5c; oz. 20c; 4-oz. 60c; lb. \$2.00

WINTER QUEEN.—One of the best winter varieties, and highly recommended. It is tall and forms a large bunch. The leaves are light green.

Pkt. 5c; oz. 30c; 4-oz. 90c; lb. \$3.00

SOUP CELERY for flavoring.

4-oz. 10c; lb. 35c



White Plume.

What Customers Write About Our Seeds

Warren, Ore., 1913.

Routledge Seed & Floral Co.

Gentlemen: Last year I ordered some Routledge's Superb Sweetcorn, which was the best I ever tried.

Yours truly,
P. N. ALMQUIST.

Oregon City, Ore., April 26, 1913.

Routledge Seed & Floral Co.

Gentlemen: The Routledge Mammoth Carrot is the best I ever had for stock and the heaviest cropping Carrot I ever had on the farm.

Yours,
J. T. EVANS.

CELERİAC

Turnip rooted celery

Large, Smooth Prague.—An improved form, producing large, smooth roots, which are nearly round.

Pkt. 5c; oz. 20c; 4-oz. 60c

COLLARDS

True Georgia.—Used as "greens" mainly in the South and West. As the leaves are pulled off, others grow in their places.

Pkt. 5c; oz. 15c; 4-oz. 30c

CORN SALAD

FETTICUS OR LAMB'S LETTUCE

One ounce sufficient for bed 20 feet square.

Large-Leaved Fetticus.—Used as a salad.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 65c

CRESS

Curled or Pepper Grass.—Used as a salad.

Pkt. 5c; oz. 10c; 4-oz. 25c

True Water.—This is quite distinct from the former and only thrives when its roots and stems are submerged in water. It is one of the most delicious of small salads.

Pkt. 5c; oz. 35c; 4-oz. \$1.00

DO YOU SEND EAST for your Seeds? It's bad policy. Spend your money on this Coast. Here's where you sell your products. Our Seeds are highest quality.

Selected CORN—SWEET OR SUGAR Northern Grown

If ordering by mail, add 10c per pound for postage. Write for quantity prices.

ROUTLEDGE SUPERB

This is the earliest, large-eared, sweetest and most productive early Corn known, and we mean every word of it.

There is no use writing a half page to say the same thing. We can not understand why gardeners will persist in planting the old run-out varieties that taste like field corn when cooked, when such a delicious, tender and productive corn as our "Superb" will double their sales and profit and please their customers. Routledge's Superb will mature 7 to 10 days ahead of other early Sweet Corns and produce very large ears, appetizing, sweet and unsurpassed.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50

PEEP O' DAY

Extremely early, very productive and of excellent flavor and quality. The medium sized ears come 3 to 5 to the stalk. An ideal white sweet corn for the home garden.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.25

ROUTLEDGE'S Selected Strain

GOLDEN BANTAM

Flavor.—Without exception, Golden Bantam Corn is the richest in flavor of all varieties; a sweet corn of which one will never tire. The first trial of this delicious Sweet Corn creates a taste "like more."

Earliness.—Golden Bantam Sweet Corn is one of the earliest sweet corns. It matures quickly and is suitable, not only for early planting (on account of its hardiness), but a succession of sowings may be made which will give continuous supply until fall.

Color.—When picked at the proper stage of its growth the kernels are a rich, creamy yellow. This deepens to an orange yellow as it ripens. Its first appearance often leads the purchaser to doubt its being a sweet corn. A trial, however, soon convinces that the color has no effect on its unsurpassed quality.

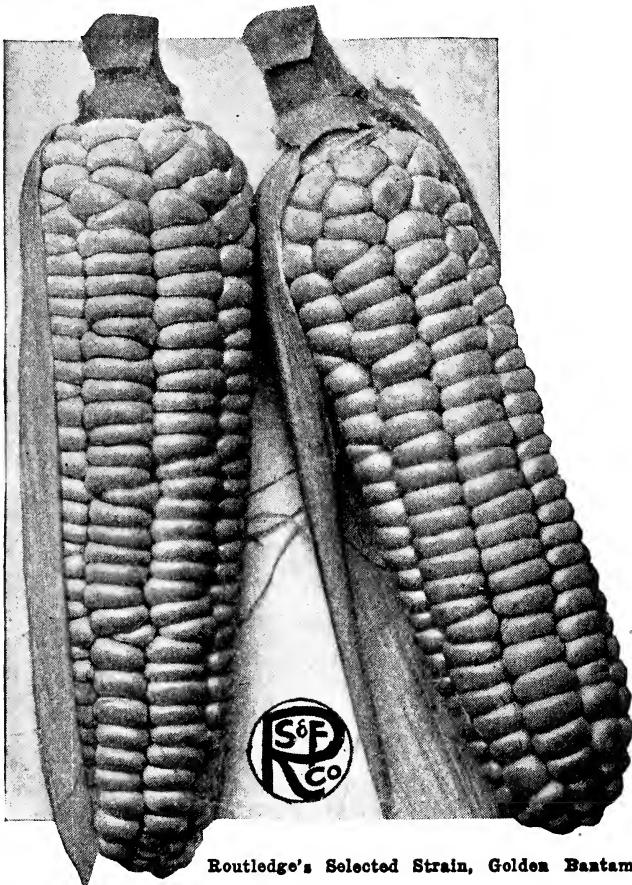
Growth.—Being dwarf in growth, with stalks small in size, it can be planted quite close, and a large crop may be obtained on a small area. The ears are 8 to 12-rowed, and from 5 to 7 inches in length—just the right size to handle at the table.

The Best Ever.—We have yet to hear of one who has grown Golden Bantam Sweet Corn and was not well pleased with it. From all points come letters from pleased customers. So sure are we that it will satisfy everyone who tries it this season, that we agree to refund the price paid us for Golden Bantam if it does not give perfect satisfaction.

Price: Large pkt. 10c; lb. 20c; 10 lbs. \$1.50; 20 lbs., enough for 1 acre, \$2.40.

WHITE COB CORY.—Quite early and of good size. Excellent quality; good for main crop and market.

Large pkt. 10c; lb. 15c; 10 lbs. 90c



Routledge's Selected Strain, Golden Bantam.

EARLY MAMMOTH.—One of the very best varieties to plant for home garden or market. Forms very large ears, which are quite sweet and of fair quality. It withstands our dry summers well. The ears fill well and are excellent.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

COUNTRY GENTLEMAN.—Valued for its richness of flavor and productiveness, having 3 to 4 good ears to the stalk, all extra large, with exceedingly deep kernels. Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

EARLY MINNESOTA.—This old and deservedly popular variety is one of the best early sorts for the market and private garden.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

BLACK MEXICAN.—An extra fine variety, unsurpassed for sweetness. Ears bluish-black when ripe, but whiten on being cooked.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

STOWELL'S EVERGREEN.—A good main crop or late sort. Recognized everywhere as the standard variety for market and home use. Remains longer in green state than any other. Very large ears, with deep grains, and remarkably sweet.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.00

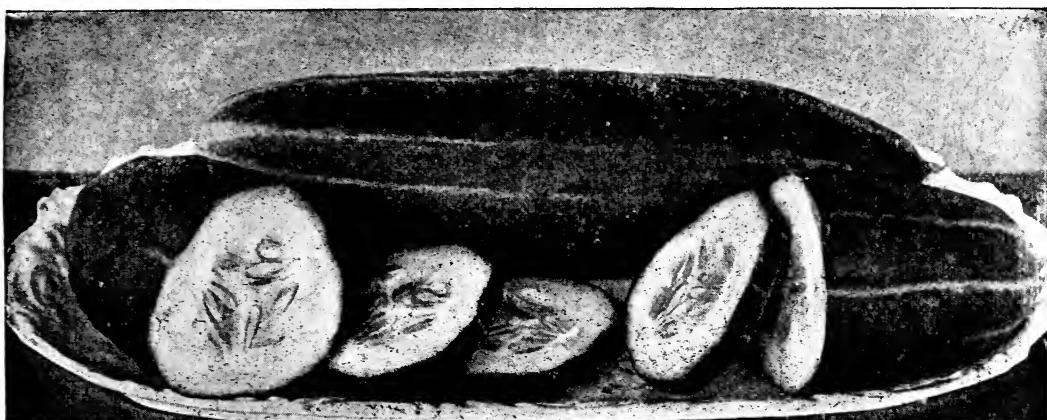
POP CORN

White Rice.—Most popular and profitable kind; short ears, white, pointed kernels.

Large pkt. 10c; lb. 15c

FIELD CORN.—Don't overlook what we have to offer in Oregon grown Field Corn; "the best ever." Pg. 44.

CUCUMBERS



Routledge Highest Quality Cucumber.

Routledge Highest Quality (Forcing)

An extra selected strain of long, smooth white spine. A quick grower and always commands "fancy prices" on account of its fine form and superb quality. Excellent for forcing under glass or home garden use.

Pkt. 10c; oz. 20c; 4-oz. 60c; lb. \$1.75

Arlington White Spine

One of the best sorts for table use. Vines vigorous, fruiting early and abundantly. Fruit uniformly straight, light, bright green in color, with a few white spines. Flesh crisp, tender and of excellent quality.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. \$1.00

Improved Long Green

The leading large variety. Fruit from 10 to 12 inches long, dark green, crisp and tender. A good variety for slicing, and when ripe they are the best for sweet pickles. We offer "Highest Quality" seed that will grow long and uniform fruit.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.10

JAPANESE CLIMBING.—Often used for ornamental purposes, as the vines are very vigorous, throwing out tendrils, enabling them to climb trellises admirably. Dark green fruit, quite large and very tender.

Pkt. 10c; oz. 15c; 4-oz. 50c

Boston Pickling

A distinct variety, very popular for pickles; color bright green, a great producer and of excellent quality. It is for producing medium-sized pickles that this variety is so highly esteemed. If the fruits are gathered as soon as large enough, the vines will continue bearing through a long season.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

EARLY SHORT GREEN.—A very early and productive variety, bright green, rather short, straight, and a little smaller at the ends. Crisp and tender.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00

EARLY GREEN CLUSTER.—One of the extra early varieties. A great bearer; fruit small, dark green and borne in clusters of excellent quality.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.00



Improved Long Green.

EGGPLANT

New York Improved Spineless.—Considered the best variety. Oval shaped, deep purple, large size and fine flavor.

Pkt. 10c; 1/2-oz. 30c; oz. 50c; 4-oz. \$1.40

HORSE-RADISH ROOTS

These sets or small roots can be planted in the spring or fall, small end down, with the top one inch below the surface, in rich, cultivated soil. Will form radishes of large size in one season's growth. For prices, see Vegetable Plants and Roots, page 16.

USE BUG DEATH FOR INSECTS (pg. 107), and "WONDER, pg. 47, on your cucumber vines and you will be more than pleased with results.

ENDIVE

This is a hardy vegetable, cultivated principally for a winter salad. Sow from May until August for a succession of crops; tie the leaves closely together to blanch them.

Green Curled.—The hardest of all, with beautifully curled dark green leaves, tender and crisp.

Pkt. 5c; oz. 15c; 4-oz. 40c

White Curled.—Very tender and white; blanches easily.

Pkt. 5c; oz. 15c; 4-oz. 40c

KALE or Borecole

Kale, or Borecole, is a kind of cabbage that does not form a close and solid head, but a cluster of beautifully curled or wrinkled leaves, that are tender and of excellent flavor. It requires the same treatment as cabbage; is very hardy, being improved by frost.

DWARF GREEN CURLED.—Beautifully curled, bright green leaves, tender and of fine flavor.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

Tall Green Curled.—Grows about two feet high; leaves dark green; curled and wrinkled; very hardy and is improved by a light frost.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

Thousand-Headed.—For stock feeding.. See Field Seeds, page 43.

KOHLRABI

EARLY PURPLE VIENNA.—Fine early variety, with purple skin and white flesh.

Pkt. 5c; oz. 20c; 4-oz. 60c

Early White Vienna.—Similar to purple variety, excepting color.

Pkt. 5c; oz. 20c; 4-oz. 60c

LEEK

Carentan.—Mild and sweet; largest variety; hardy and of the finest quality.

Pkt. 5c; oz. 20c; 4-oz. 50c

AMERICAN FLAG.—Very broad, thick stems of good flavor.

Pkt. 5c; oz. 20c; 4-oz. 50c

LETTUCE

Grand Rapids

Very popular with private gardeners and as a lettuce for greenhouse forcing. It will stand shipping better than most curled sorts. Of quick growth and stands for some days after being fit to cut. The plant is upright, and forms a loose head or cluster of large, bright, green leaves, finely crimped and ruffled; rather thin, good flavor, crisp and tender.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00.

HANSON

IMPROVED HARD HEADING STOCK.—The leading head lettuce. We can recommend this as one of the very best. Heads green outside and white inside; grow to a remarkable size; very solid, and is deliciously sweet, crisp and tender. It withstands the hot sun.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00.



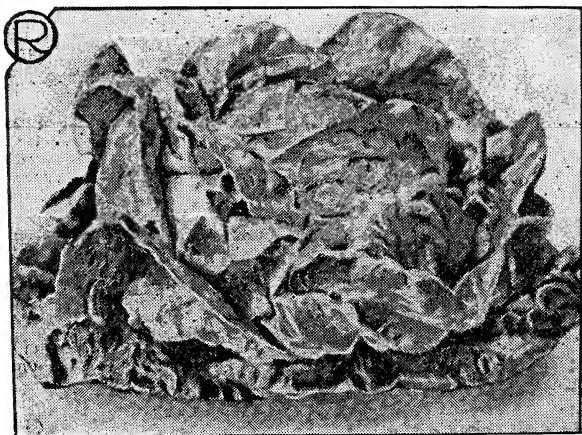
Grand Rapids Lettuce.

Simpson's Early Curled

A very extensively used early loose leaved, or clustering variety. Leaves light green, slightly frilled, crisp, sweet and tender. The sort is especially adapted for sowing thickly and cutting when the plants are young.

Pkt. 5c; oz. 15c; 2-oz. 25c; ¼-lb. 35c; lb. \$1.00

Our Motto:
Quality first,
price as low as
we can make it



Big Boston (See next page).

Early Prize Head

This old standard sort still stands at the head of the large, thin-leaved, clustering varieties. The very large leaves are savoyed or crimped; bright green, tinged with red, and are exceedingly tender, crisp and sweet, forming a large, loose head. This variety is one of the very best for the home garden. Very attractive.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

Early White Cos—Self-folding

(Romaine) Cos Lettuce is distinct in having long, narrow, spoon-shaped leaves, folding into loose, sugar-loaf shaped heads which branch better by having the outer leaves drawn about them and tied. Leaves yellowish white, crisp, tender and of good quality; a self-branching lettuce of superior flavor. Sold also as Romaine or Trianon.

Pkt. 5c; oz. 15c; 2-oz. 25c; ¼-lb. 40c;

lb. \$1.50.

LETTUCE—Continued

R. R.'S TENDER CRISP

A distinct and extra choice variety for those who like curly, crisp, tender Lettuce of the finest quality.

Grows to a large size, makes most desirable heads of pleasing appearance, and retains its crispness and mild flavor to a greater degree during the hot summer months than any other crisp-head variety. While especially adapted for midsummer, it is most desirable also for spring and fall. The plants are of quick, strong growth; the leaves are of a soft, bright green, growing closely around the heads, which are tightly folded and blanch to a silvery white, and crisp and brittle as could be desired.

Pkt. 10c; $\frac{1}{2}$ -oz. 15c; oz. 20c; 4-oz. 50c

Roseburg, Ore., July 6, 1913.

Routledge Seed & Floral Co.

Dear Sirs: Enclosed find ten cents. Kindly send me a package of R. R.'s Tendercrisp lettuce seed. It's the best I ever raised and want more of it. One head weighed three and a quarter pounds. It's the sweetest and crispest curly leaf I ever saw.

Sincerely yours,
W. W. GILKEY.

California Cream Butter

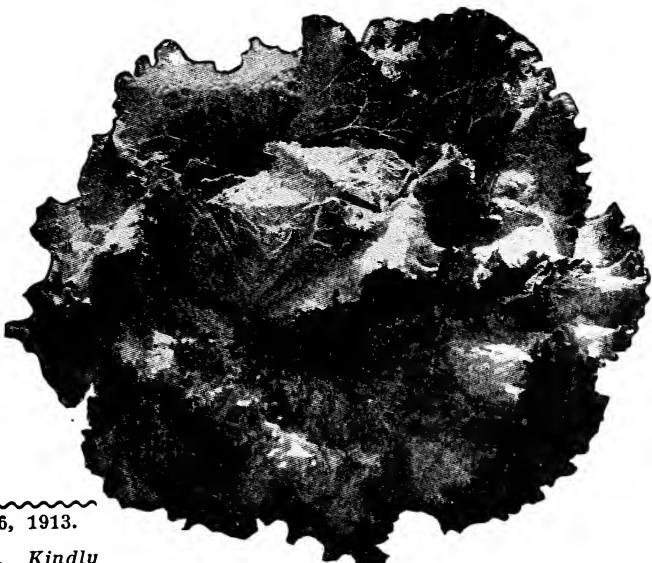
A very popular variety for autumn and winter use. Forms a very large head, which is very buttery and of a rich golden-yellow inside. The leaves are thick and of bright green, slightly tinged with brown on top of head, and the outer leaves are slightly spotted with inconspicuous brown spots. Easy to grow and a good shipping variety.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ -lb. 30c; lb. \$1.00

Immensity

A very large-heading variety; one of the largest of the cabbage sorts; larger than California Cream Butter, which it resembles in color and shape. It is especially adapted for planting in the fall and winter, and makes a fine, tender, buttery head. A number of our best local market gardeners have been growing it and find it unsurpassed.

Pkt. 10c; oz. 20c; 4-oz. 50c



R. R.'s Tender Crisp Lettuce.

Big Boston

Popular for outdoor culture, and also in demand as a compact, large heading, forcing sort. Plants very large, very hard and vigorous; leaves broad, comparatively smooth, but wavy at edge, thin, very hard and crisp; color bright, light green; the head slightly tinged with reddish brown. Grown extensively in the South for shipment North in the winter.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

Salamander.—Valued for its hardiness, withstanding to a marked degree heat and continued drought. Largely used for a fall crop. Esteemed very highly by market gardeners.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

May King

A very early new variety, forming fine hard heads within a few weeks after planting. It is medium sized, light green, with buttery but crisp heads. There is just a faint tint of brown on the head. We have had no end of praise from our friends and customers who have tried this variety. It is essentially a Spring sort and does well all Summer. Being of rapid growth and quick heading it is especially recommended for home garden and is universally esteemed. It came to us from one of the leading growers of Germany, and we are assured that it is as popular in Europe as America.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

We carry in stock Garden Hose, Tools and Supplies of all kinds. See pgs. 106-113.

MUSTARD

The leaves of mustard make excellent greens of sharp, pungent flavor, and are cooked the same as spinach or beet leaves.

SOUTHERN GIANT CURLED.—Large variety, forming a great mass of beautiful leaves, which are ruffled and finely curled on the edges; hardy, vigorous, highly recommended.

Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 60c

White English.—Light green variety; tender leaves; seed light yellow.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 40c



PLANT SMALL FRUITS around your garden. What's nicer than delicious fresh fruit, fresh from your garden? See Fruit Department, pages 93 to 100.

MUSKMELON

ROCKY FORD, OR NETTED GEM

The most popular and best seller among Muskmelons.

The fruit is oval, slightly ribbed, densely covered with coarse netting. Flesh thick; green, very sweet and highly flavored. The fruit is wonderfully uniform in shape and quality. Grown largely in Colorado and shipped in carload lots all over the country. The favorite everywhere.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

BURRELL'S GEM

Select Strain.—A new, medium-sized oval variety, well ribbed and covered with a fine grayish netting, and having salmon or red flesh. It is larger than Rocky Ford and of an entirely distinct flavor. There is a growing demand here for the fine-grained, smooth, salmon, red-fleshed Muskmelons, and Burrell's Gem seems to be one of the best in cultivation.

Pkt. 5c; oz. 10c; 4-oz. 35c; lb. \$1.00

THE HOODOO

One of the best of recent introductions. It is early and prolific. The fruit is of medium size, the seed cavity very small, the rind very thin indeed, and the edible fleshy part very thick and meaty. It is of orange or salmon color, the type much preferred now; but its great charm is its flavor, which is par excellence. Test it.

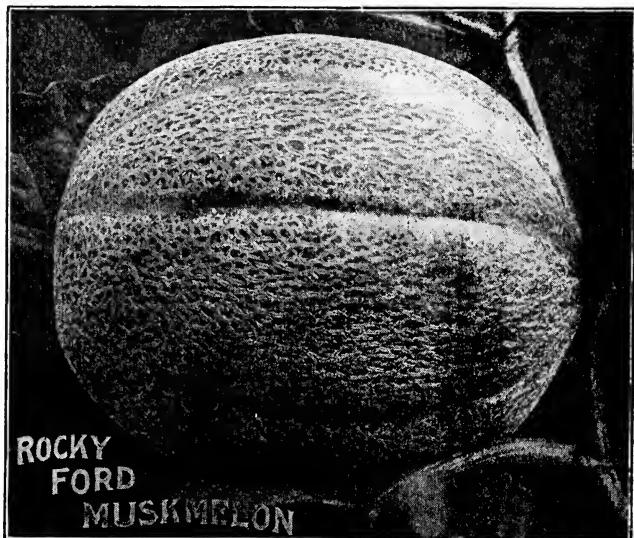
Pkt. 10c; oz. 20c; 4-oz. 50c; lb. \$1.50

MONTREAL IMPROVED NUTMEG.—Valued for its size and delicious flavor. Round in shape, with remarkably thick green flesh. One of our handsomest varieties.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

OSAGE, OR MILLER'S CREAM.—Medium to large, flesh thick, deep salmon, of excellent quality, rich and sweet; skin dark green, slightly netted and ribbed. A favorite variety for the later markets.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25



ROCKY
FORD
MUSKMELON

LARGE YELLOW CANTALOUE.—A distinct type and very popular with all who have tried it. The fruit is large, oblong, slightly ribbed and coarsely netted. The flesh is light yellowish-green, very sweet, crisp and delicious.

Pkt. 5c; oz. 10c; 4-oz. 35c; lb. \$1.00

KRIS KRINGLE

The Best of the Winter Casabas.

Do not pick until light streaks become quite yellow not pick until the light streaks become quite yellow. Stow away so they do not touch each other in a cool, dark place. When the rind becomes slightly softened and moist they are ready to eat. Some of the melons will actually keep until February.

Pkt. 10c; oz. 20c; 4-oz. 60c; lb. \$2.00

WATERMELON

ROUTLEDGE'S OREGON PRIZE

We offer this new Melon with the assurance that it is not only remarkably early, but as sweet, delicate and melting in flavor as any variety grown.

The flesh is of a deep scarlet; rind thin, and on this account is not a particularly good shipping sort, but is emphatically the variety for home use and sale. It will ripen in altitudes where it has not been thought possible to mature a good watermelon.

Pkt. 5c; oz. 15c; 1/4-lb. 40c; lb. \$1.25

Cole's Early.—One of the best early sorts; medium size, green skin and red flesh.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

KLECKLEY'S SWEET.—Unsurpassed for home use or near markets. Vine vigorous and productive; fruit of medium size, oval; color dark green; flesh very bright, rich red and exceedingly sweet. So crisp and tender that it will not stand shipping.

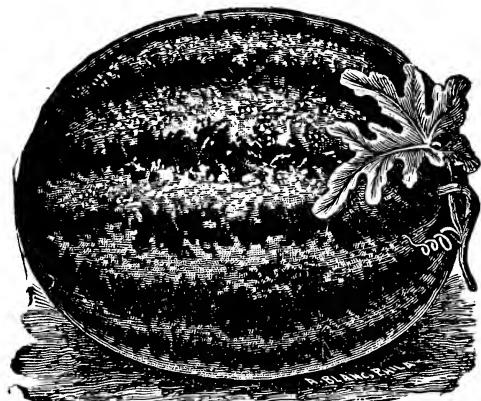
Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 75c

Florida Favorite.—Of large size and excellent quality; fruit long, dark green, mottled and striped with lighter shade; rind thin but firm; flesh very bright, deep red, very sweet, tender and excellent.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 85c

Cuban Queen.—A very vigorous grower; early, very solid and heavy; of most delicious flavor.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c



Routledge's Oregon Prize.

Ice Cream.—Medium size and nearly round; solid scarlet flesh of finest flavor.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 65c

Citron, Red Seeded.—Flesh white and solid; used exclusively for pickles and preserves.

Pkt. 5c; oz. 15c; 4-oz. 35c

25C WORTH OF SEEDS FREE—In packets and ounces only you can select \$1.25 worth for \$1.00; see inside front cover.



MUSHROOM SPAWN

MUSHROOM CULTURE.—We have a 32-page booklet on Mushroom Culture, nicely illustrated, for 25c, postpaid. Free with an order for 10 bricks. (Other books, page 128.)

LAMBERT'S PURE CULTURE SPAWN.—Mushrooms may be grown in any place where conditions of temperature and moisture are favorable. A shed, cellar or cave may be utilized to advantage for this purpose. It is essential that the temperature be maintained from 53 to 60 degrees F., and that the moisture be properly regulated. Lambert's Pure Culture Spawn is far superior to the old-style varieties, and much better results can be obtained from its use. The bricks should be broken into pieces about two inches square and planted from 10 inches to a foot apart. Bricks weigh from 18 to 24 ounces. A brick will spawn 10 square feet of bed. With Lambert's Pure Culture Spawn it is impossible to raise poisonous mushrooms.

Price, per brick, 35c, postpaid. By express or freight, 10 bricks, \$2.25. Write for quantity price.

"Highest Quality"

NEW GIANT BROWN MILAN

A novelty. This new onion comes from Northern Italy, where it is also called San Lorenzo. In color it is chestnut brown and grows to a very large size, and is very different in shape from any other kind, being top-shaped, broad and flat, tapering to the root. The flavor is very pleasant, but its greatest value is its extra long keeping qualities, six to eight months, it is claimed. Give this novelty a trial. Price: Original pkts, only this year, ea. 10c

ONION

True Pure Seed

AILSA CRAIG

A magnificent variety of recent English introduction. Unsurpassed for exhibition purposes.

Very large, oval shaped, with straw-colored skin. When grown to perfection will weigh from 2½ to 3 pounds. Has attained great popularity among private gardeners for its all-round superiority and as an exhibition variety. The stock we offer is unexcelled and obtained direct from one of the best growers in England.

Pkt. 10c; oz. 35c; 4-oz. \$1.00

EXTRA EARLY RED FLAT.—The first Red Onion to ripen. A medium-sized, flat variety; an abundant producer and very uniform in shape and size; moderately strong-flavored and comes into use nearly two weeks earlier than the Large Red Wethersfield; very desirable for early market use.

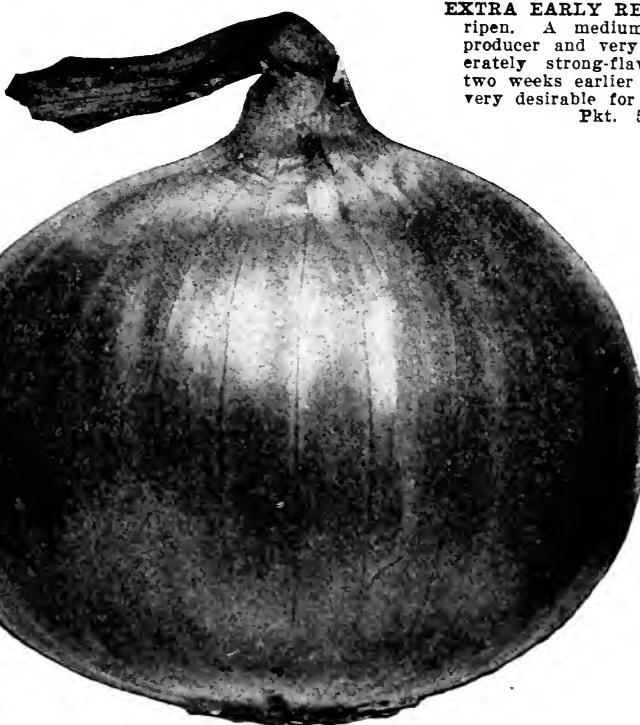
Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.50

OREGON YELLOW DANVERS

This is the variety planted almost entirely in the Northwest, particularly in Oregon. The largest crops of onions and the best keepers, bringing the highest prices in the Oregon and California markets, are the Oregon Yellow Danvers. The bulbs are uniformly large, of a half-globe shape, with small necks. It is the earliest, largest in size, most perfect in shape, the largest cropper and the best keeper, and as a market or table onion cannot be excelled. Our seed is grown especially for us by the best onion seed growers in Oregon. No onion grower can afford to plant anything inferior when such seeds can be obtained at following prices:

Pkt. 5c; oz. 20c; 4-oz. 50c; lb. \$1.75. 4 lbs. \$6.00.

Yellow Danvers.—An old and well-known variety, flatter than above.
Oz. 15c; 4-oz. 50c; lb. \$1.50
4 lbs. \$5.00.



Oregon Yellow Danvers Onion.

ONION—Continued

ROUTLEDGE PRIZE TAKER

This onion has become a great favorite on account of its large size and great solidity. It is perfectly globe-shaped, with straw colored skin; the necks are very small and the onions always ripen up hard. An excellent keeper, exceedingly fine flavor, grows to an enormous size, onions weighing five pounds having been grown from seed the first year.

Pkt. 10c; oz. 15c; 4-oz. 50c; lb. \$1.50

Crystal White Wax—New

A large, pure white, flat onion. During the last few years it has become very popular. Extremely early and one of the mildest and sweetest of all. It is very fine for slicing, the color being so clear and pure. We offer the genuine imported true seed.

Pkt. 10c; oz. 40c; 4-oz. \$1.50

LARGE RED WETHERSFIELD.—The standard variety of the red onions. Of large size, a heavy yielder, and one of the best for keeping. Skin a deep purplish red.

Pkt. 5c; oz. 15c; 4-oz. 50c; lb. \$1.25

YELLOW GLOBE DANVERS.—One of the most extensively used yellow onions. Bulbs of good size, uniformly globe shaped, with small neck, and ripen very evenly. Flesh white, crisp and of mild and excellent flavor. An enormous yielder and a fine keeper. We offer a select strain, unsurpassed.

Pkt. 5c; oz. 20c; 4-oz. 50c; lb. \$1.50; 4 lbs. \$5.00

SOUTHPORT RED GLOBE.—An early maturing, large-sized, globe-shaped onion with deep red skin; flesh fine-grained, very mild and tender. Pkt. 5c; oz. 20c; 4-oz. 50c; lb. \$1.75

AUSTRALIAN BROWN.—One of the most popular and most sought after onions in many markets. Its remarkable keeping qualities and handsome appearance have brought it rapidly to the front. This onion resembles the Oregon Yellow Danvers in general appearance, but has a clear, amber-brown skin that attracts buyers. It matures early, ripens uniformly and will keep in good condition longer than any other onion. We offer the true, genuine seed.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

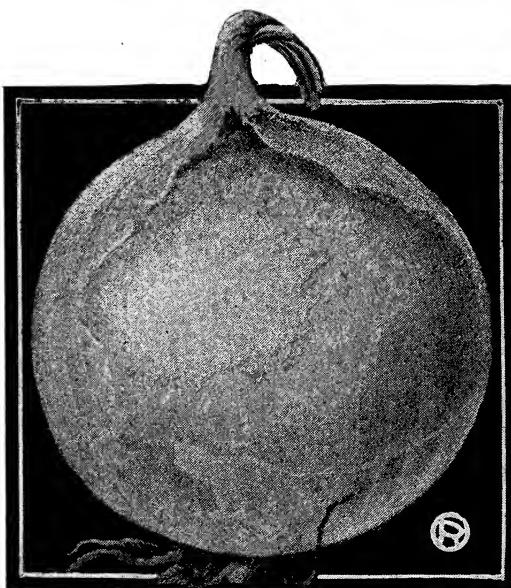
SOUTHPORT WHITE GLOBE.—An enormous yielder and superb keeper; perfect globe-shaped, very large, clear white skin and considered one of the handsomest varieties grown. We offer the very finest stock obtainable.

Pkt. 10c; oz. 20c; 4-oz. 65c; lb. \$2.35

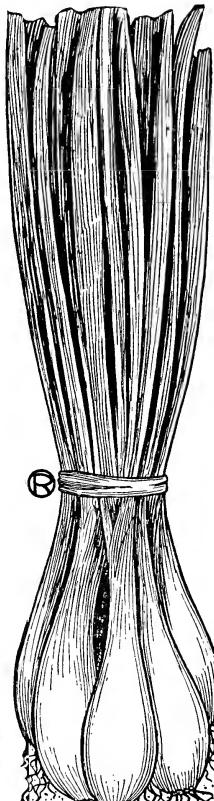
Special
Onion Fertilizers.
See page 46



Australian Brown



Routledge Prize Taker.



Green Onions
from Sets.

BARLETTA (Queen).—A white variety; prized for pickling on account of its small size and remarkable keeping qualities. Of very quick growth, flat-shaped and fine flavor.

Pkt. 5c; oz. 20c; 4-oz. 65c; lb. \$2.35.

WHITE PORTUGAL, OR SILVERSKIN.—The finest flavored of all the white-skinned onions. Quite early, flat-shaped and a fine cropper. Often used for pickling when young.

Pkt. 10c; oz. 25c; 4-oz. 75c; lb. \$2.50.

ONION SETS

Bottom Onion Sets.—These small onions are grown from seed that have been sown too thick to attain a large size. The small onions (about $\frac{1}{4}$ -inch in diameter) thus obtained are planted out and are ready in a short time to pull as green onions for the table.

Per lb. 15c, postpaid 25c; 10 lbs. \$1.25. Write for low prices by the 100 lbs.

Top Sets.—Lb. 20c, postpaid 30c.

Multipliers.—Lb. 25c, postpaid 35c.

Shallots.—Valuable for bunching or for an early crop. The smallest sets make fine bulbs of good size, while the larger ones produce a cluster of small to medium-sized bulbs; light brown skin; mild, white flesh.

Per lb. 25c, postpaid 35c.

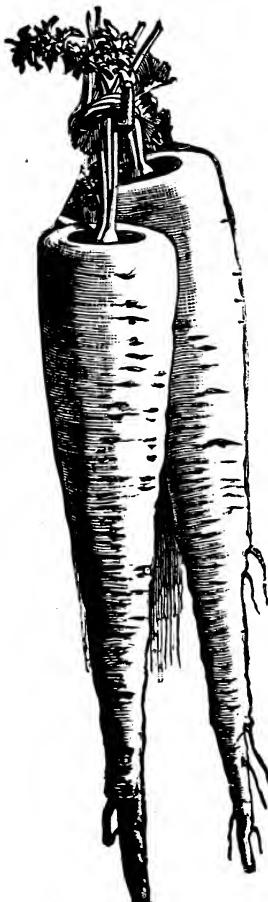
OKRA

Improved Dwarf Green.—Very productive; long, slender green pods.

Pkt. 5c; oz. 10c; 4-oz. 25c.

DON'T PRACTICE FALSE ECONOMY BY BUYING LOW-PRICED SEEDS. OUR MOTTO—QUALITY FIRST, PRICE AS LOW AS WE CAN MAKE IT.

PARSNIP



Parsnip

SWEET MARROW

This fine new parsnip of English origin is offered with full confidence that it will become a prime favorite with all who use it. It is very fine grained and exceedingly sweet, while the peculiar "parsnip" flavor is fully preserved. The roots are unusually smooth and attractive in appearance. The best of all parsnips for the private or market garden.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 85c

HOLLOW CROWN.—The most popular variety; medium length roots, very smooth and of the finest quality. Derives its name from a depression at top of crown or root; very fine table sort.

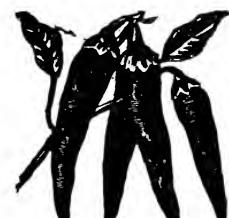
Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

"WONDER," the only odorless fertilizer on the market. A 25c package will do wonders. Read more about it, pg. 47.

PEPPER

LARGE BELL, OR BULLNOSE.—A very large, inverted bell-shaped, valued for pickling or for filling; thick, hard flesh, not very pungent and remarkably early for such a large fruit.

Pkt. 5c; oz. 25c; 4-oz. 85c; lb. \$2.50



Red Chili

DWARF EARLY SQUASH.—A very mild-flavored variety, popular with the market gardeners; very thick flesh; fruit very smooth and almost round; of dwarf growth and great productiveness; one of the earliest.

Pkt. 5c; oz. 25c; 4-oz. 85c

RED CHILI.—A rather small, bright red variety about 2 inches long and pointed; the pods are used in making chili sauce, and are very pungent and hot.

Pkt. 5c; oz. 25c; 4-oz. 85c

CAYENNE.—Long, red, pointed pods; very strong and used largely for making pepper sauce; popular variety.

Pkt. 5c; oz. 25c; 4-oz. 85c

CHERRY RED.—Rich, glossy, scarlet fruit at maturity; small, smooth and round; of dwarf habit.

Pkt. 5c; oz. 25c; 4-oz. 85c



Bullnose

PUMPKIN

WINTER LUXURY

An enormously productive variety of medium size and superior keeping qualities. Of roundish shape, about 10 inches in diameter; golden russet color, with finely netted, deep golden flesh; sweet and tender. By far the best for pies; try it.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.00

SMALL SUGAR.—Fine grained, very sweet and excellent keeper. Skin deep orange-yellow.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

KING OF MAMMOTHS

The largest of all the pumpkins; grow this variety to win the prizes at the Fair.

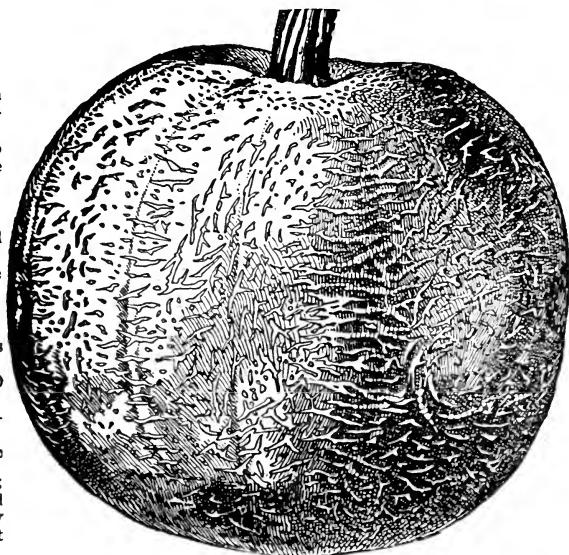
Pkt. 10c; oz. 15c; 4-oz. 50c; lb. \$1.50

CONNECTICUT FIELD.—The best for field culture and excellent for stock.

Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 50c

LARGE SWEET CHEESE.—A popular variety; fruit flattened; skin mottled light green and yellow; flesh yellow, thick and tender; very nutritious and of excellent quality; a most productive variety.

Pkt. 5c; oz. 10c; 4-oz. 20c; lb. 60c



Winter Luxury Pumpkin

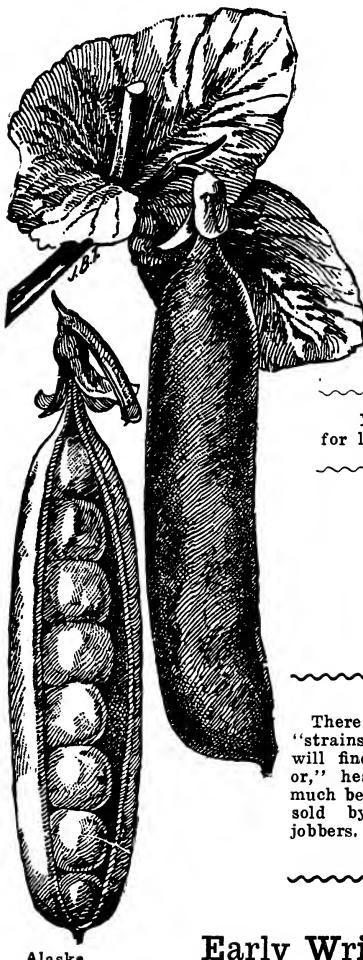
"Highest Quality"**GARDEN PEAS****Hand Picked**

Add 10c to pound prices if wanted by mail.

Note.—Garden peas that have been properly grown, "rogued" in the field and "Hand picked," can not be sold for less than our prices.

Extra Early Hardy Peas

You can plant these in the fall or very early spring before it is safe to plant the wrinkled varieties; they are most desirable and popular on account of their extreme earliness; follow with wrinkled sorts when ground is warm.



Alaska.

First and Best

The earliest and most even strain of white, extra early peas, maturing so well together that sometimes a single picking will secure the entire crop. Vines vigorous and hardy, two and one-half to three feet high, bearing three to seven straight pods, each containing five to seven medium sized, smooth peas of fair quality. Seed small, smooth, yellowish-white. The stock we offer is much superior to most on the market and more even than similar strains.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.25

Earliest of All, or Alaska

By careful selection and growing we have developed a stock of this smooth blue pea of unequalled evenness in growth of vine and early maturity of pods which are filled with medium sized, bright green peas of good flavor. Vines two and one-half to three feet high. Seed small, and bluish-green in color. Matures all the crop at once and is an invaluable variety for market gardeners and canners.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.25.

PEAS BY MAIL—Add 10c lb. if wanted by mail, postpaid. WRITE for low price in quantity, STATING AMOUNT AND KIND WANTED.

Duke's Best Extra Early—A prize strain

This is very much the best early pea of the smooth-seeded varieties; is very much sweeter and also earlier. The vines make very quick growth, about 18 inches high. The pods are always well filled and ripen practically all at one time.

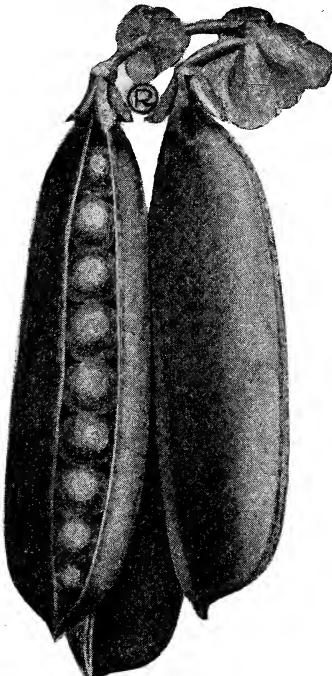
Large pkt. 10c, lb. 20c, 10 lbs. \$1.50

There is a vast difference in "strains" of garden peas. You will find our stock "very superior," healthy, vigorous and true, much better than the average seed sold by wholesale dealers and jobbers.

Early Wrinkled Peas**American Wonder**

The earliest of the dwarf, wrinkled varieties. Vines branching, about ten inches high and covered with well filled pods of medium size, containing five to eight large, exceedingly sweet, tender and well flavored peas. A great favorite for planting in the small garden on account of its short, compact growth. We have taken great pains in growing our stock and know it to be much better than that usually sold.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50



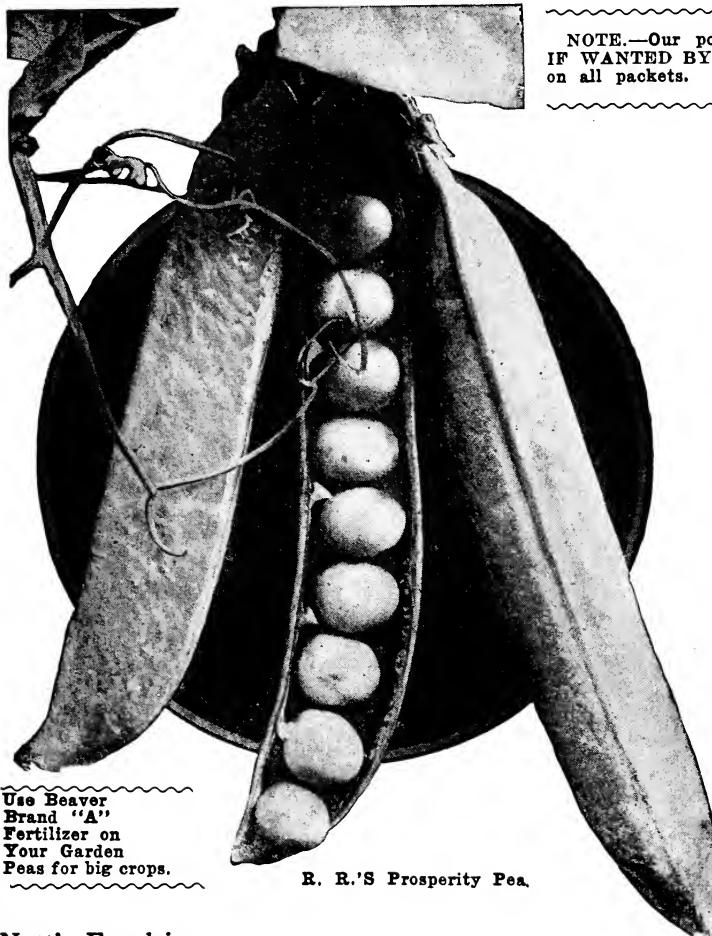
Improved Premium Gem.

Improved Premium Gem

The vines are of dwarf growth and produce an abundance of round, well filled pods of good size, about three inches long only a few days after the American Wonder. The peas are green, wrinkled, of sweet, delicious flavor and excellent quality. One of the best for family use. It remains fit for use longer than the American Wonder and Nott's Excelsior, and thought by many to be sweeter. Height, 15 to 18 inches.

Large pkt. 10c; lb. 15c; 10 lbs. \$1.25

Market Gardeners who buy Peas in quantity should write us for prices, stating variety and amount wanted.



Use Beaver
Brand "A"
Fertilizer on
Your Garden
Peas for big crops.

R. R.'S Prosperity Pea.

Nott's Excelsior

A deservedly popular variety; an enormous yielder, and of the very choicest flavor; pods well filled with six to eight peas, packed very closely together; valued highly for the home garden, and for all-round excellence is second to none; 15 inches high.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50

Thomas Laxton

An early wrinkled variety of great merit. Vine three to three and one-half feet high. Pods large and long; uniformly well filled. The green peas are very large, fine colored and unsurpassed in quality.

We are certain that the earliness and productiveness of this pea needs only to be known to make it one of the most popular sorts for the market and home garden.

Large pkt. 10c; lb. 25c; 10 lbs. \$2.25

Early Dwarf Telephone

Of English origin and introduction. The striking features are its large pods and the way in which they are heaped up in ridges on the short, strong vines. The pods are nearly double the size of American Wonder or Little Gem, and are always well filled with large peas of most excellent quality. The vines are dwarf, strong and thrifty, require no support, making an ideal garden variety.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.85

Yorkshire Hero

One of the largest, sweet, wrinkled kinds; vines strong and spreading; pods of good size and well filled; much in use, and has enjoyed a long popularity; medium late, bears a long time; height, 2½ feet.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

STRATEGEM.—A semi-dwarf variety with large leaves and large pods. The peas are dark green, wrinkled, and of good quality. It is planted in large quantities by gardeners for market. In quality it is unsurpassed, the peas when cooked being of the most delicious sweetness. Vines grow 18 inches to 2 feet high, and as they are very stocky, they do not have to be brushed;

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

NOTE.—Our pound prices do not include postage.
IF WANTED BY MAIL add 10c lb. We pay postage
on all packets.

R. R.'S PROSPERITY

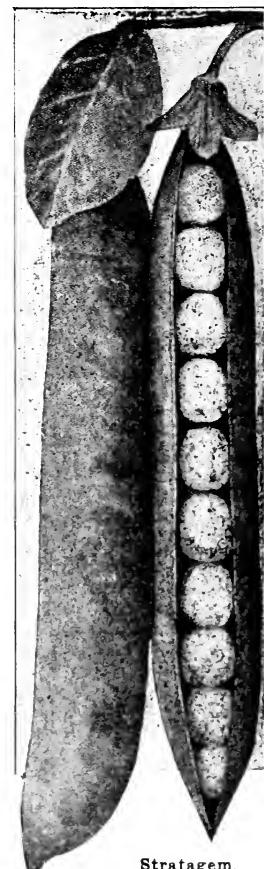
The earliest large podded, sweet garden Pea to date.

This grand, large podded, extremely early, prolific variety is vigorous and robust, growing to a height of about three feet. It is not only an abundant producer, but bears continually throughout the season. It is exceedingly early for a wrinkled variety, being only a few days later than the earliest smooth sorts.

The pods are very large, and are invariably well filled with from eight to ten sweet, luscious, tender wrinkled peas of large size and delicious flavor.

The peas remain tender and sweet for some time after they are large enough to use. (See cut.)

Large pkt. 10c; lb. 25c; 10 lbs. \$2.25.



Stratagem

PLANT SMALL FRUITS around your garden. What's nicer than delicious fresh fruit, fresh from your garden? See Fruit Department, pgs. 93 to 100.

Large Podded, Late or Main Crop Peas—Continued

Add 10c per pound if wanted by mail. Special quantity price on request.

ROUTLEDGE PRIZE

A new, sweet, wrinkled, mammoth podded Pea of extra value.

This grand new pea resembles the Telephone in color of pod and foliage, and in habit of growth; but the pods are larger and contain more peas. A bushel of Routledge Prize pods will shell out nearly twice as many peas as a bushel of Telephone. The vines are enormously productive, being completely covered with immense long pods, well filled with from 8 to 11 large peas of the richest flavor. This variety grows about 4 feet high and, as an abundant cropper, is superior to all other sorts.

Nothing in the line of peas excels the Routledge Prize in richness, sweetness and flavor; we are sure our customers will agree with us after testing this new pea. Try them and report. Large pkt. 10c; lb. \$20; 10 lbs. \$1.75.

TELEPHONE

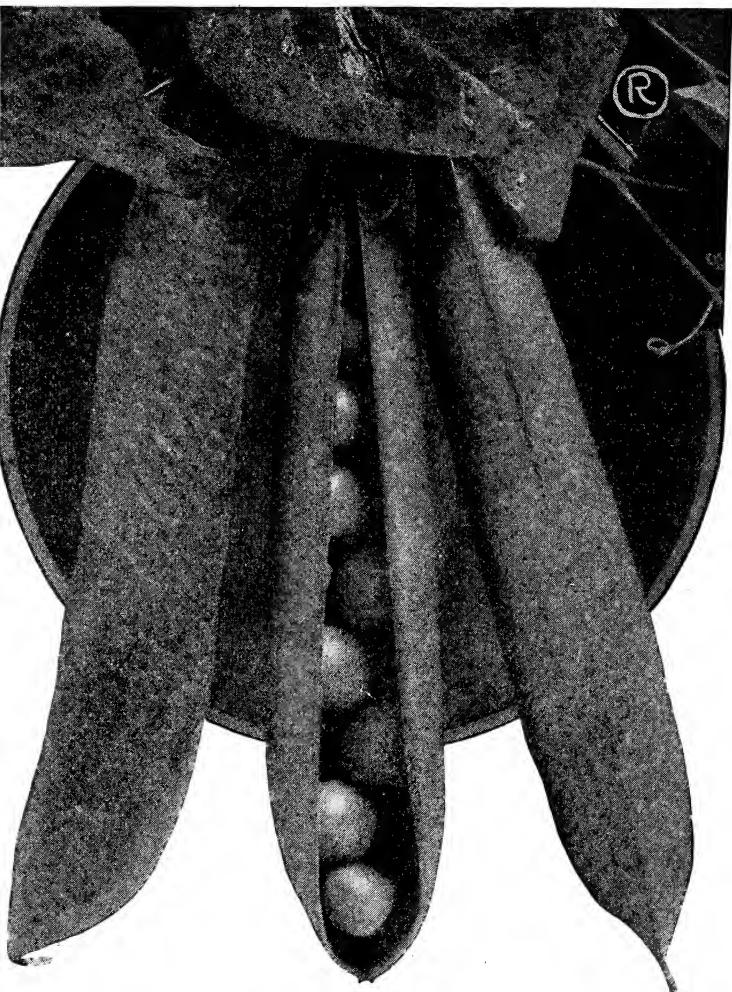
One of the most popular and largest peas we have. Vines attain a height of 4½ feet, bearing profusely the extra long, handsome pods; tender, sweet and superb flavor. We offer a very carefully rogued, select strain of unusual merit.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.50.

Dwarf Sugar (Edible Pods)

Can be used in a green state like string beans; very sweet and melting.

Large pkt. 10c, lb. 25c, 10 lbs. \$2.00



Routledge Prize—New Pea of Extra Value.

Champion of England

An old standard variety that is still unsurpassed for delicious flavor. Enormously productive; height 4 feet; unexcelled for the home garden.

Large pkt. 10c; lb. 20c; 10 lbs. \$1.25

Raymond, Wash.
Gentlemen: The garden seeds I got of you last Spring were certainly fine. I think every seed must have grown. I tried the Golden Bantam Corn and it can't be beaten for quality.

Yours truly,
MRS. A. F. WHEATON.

Do You Feed Your Growing Crops as You Do Your Stock?

Or are you actually starving your wheat, oats, hops, vegetables or whatever it may be, just because it never has occurred to you in this light before?

Beaver Brand Animal Fertilizers supply the necessary plant foods. They will increase your crops per acre. They will double the money invested.

See pages 46-47 and write for "Fertilizer Booklet." Be up-to-date and progressive.

PARSLEY

Champion Moss Curled.—An English strain, with moss-curled foliage and a very vigorous grower. Pkt. 5c, oz. 15c, 4-oz. 35c; lb. \$1.00

ARLINGTON EXTRA CURLLED.—This is the very choicest strain obtainable, and is a selection from those plants having the greatest possible curl to the leaves, and the darkest green color; a very vigorous grower, a healthy yielder; will stand heat and drought better than any other. Pkt. 5c, oz. 15c, 4-oz. 40c, lb. \$1.25



Parsley Leaf.

Routledge Seed & Floral Co's. PURE SEED POTATOES



We offer a few varieties of special merit that we recommend to our friends and customers. We think it is folly to plant ordinary or common stock. Many gardeners insist on the best vegetable seeds, but plant any old kind of potatoes, not knowing whether they are early or late. Get a start of some of our select seed stock and you will be more than pleased with the results.

ABOUT PRICES—Prices are subject to important market changes. Ask for quotations on larger lots. Good, true, healthy stock of the best named Seed Potatoes are not plentiful and are always in demand. Order early, before stocks advance. We look for higher prices late in the Spring.

Extra Early Varieties

EXTRA EARLY IRISH COBBLER

The most reliable extra early white-skinned potato; so uniform in growth that every hill seems to ripen all at one time. Form oval and round; skin lightly netted, creamy white, and having few eyes, which are quite shallow; flesh pure white and of the finest quality; not excelled by any variety; its earliness, uniformity, large yield, fine quality and very handsome appearance make the Extra Early Cobbler a popular and profitable variety for market or home garden use; compact grower and can be planted closer.

Prices: 10 lbs. 50c, 50 lbs. \$1.50, 100 lbs. \$2.50.
By mail, postpaid, lb. 30c, 3 lbs. 75c.

EXTRA EARLY BOVEE

One of the most popular and earliest potatoes grown. If you get the true Bovee it is hard to beat. It produces large crops of even, good sized tubers of excellent quality. On good soil and well fertilized it will out-yield most any other variety. Be sure you get true stock; much of the Western seed is badly mixed. Color of potato pink or flesh color. See cut next page.

Prices: 10 lbs. 40c, 50 lbs. \$1.40, 100 lbs. \$2.25.
By mail, postpaid, lb. 25c, 3 lbs. 60c.

POTATO FERTILIZER

Have you ever tried using a good potato fertilizer, rich in phosphoric acid and potash, keeping account of the expense and the increased yield? Try it; you'll find it most profitable. The vines will be strong, healthy and productive, and the tubers even, smooth, solid and of better quality.

Use Beaver Brand "E" Potato Fertilizer, 500 lbs. or more per acre along the rows at planting time. See pg. 46.

NORTH POLE.—A new early sort

In this new sort we have an early potato of superior merit. It is extra early and much more productive than most early varieties. Potatoes oblong, smooth and very even in size, averaging about four inches. Eyes are shallow, skin flesh color or pale pink. The quality is superb.

Prices: 10 lbs. 60c, 50 lbs. \$1.75, 100 lbs. \$2.75.
By mail, postpaid, lb. 30c, 3 lbs. 75c.

EARLY ROSE

This variety has been a great favorite for many years. Our stock is as fine as can be obtained.

Prices: 10 lbs. 40c; 50 lbs. \$1.35, 100 lbs. \$2.00.
By mail, postpaid, lb. 20c, 3 lbs. \$50.

Plymouth, Wash., June 19, 1913.

Routledge Seed & Floral Co.
Gentlemen: The Great Divide seed potatoes are doing better than any potatoes that I have ever planted.

JOHN D. WALKER.



Extra Early Irish Cobbler.

NEW BOOK—"Practical Potato Culture"

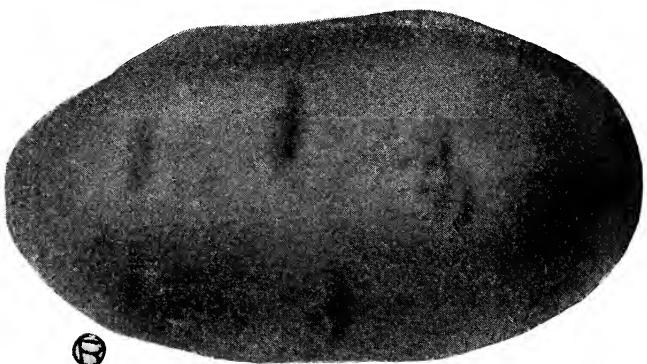
This 128 page book by E. A. Rogers, an authority on the subject of Irish potatoes, is up-to-date and worth reading. Price postpaid 50c or FREE with a cash order for Seed Potatoes amounting to \$5.00 or over, or 25c on a \$2.50 order.

Seed Potatoes—Continued—Main Crop Varieties

AMERICAN WONDER

The American Wonder is one of the best all-round white potatoes in cultivation and very popular for early or main crop. It is practically blight-proof, a strong grower, a great producer; tubers white, uniform in size, elongated, of excellent quality. It is a potato sought after and desired by our commission men, potato buyers, shippers and dealers, therefore a most profitable sort to plant. If planted early will be ready to use as soon as Early Rose, and has the advantage of being white.

Prices: 10 lbs. 40c, 50 lbs. \$1.35,
100 lbs. \$2.25. By mail, postpaid.
20c lb., 3 lbs. 50c.



PRIDE OF MULTNOMAH

A superb, new, blight-proof potato

This new potato, originating with one of our most reliable Oregon growers, has made a record for itself very quickly, and will no doubt be the variety mostly planted for main crop as soon as seed can be distributed.

Pride of Multnomah (see illustration below) is the ideal in shape and color. It is reported to be the heaviest yielding, most even growing main crop variety. The skin is smooth and white, eyes shallow and cooking qualities unexcelled, being fine grained and of snowy whiteness either boiled or baked.

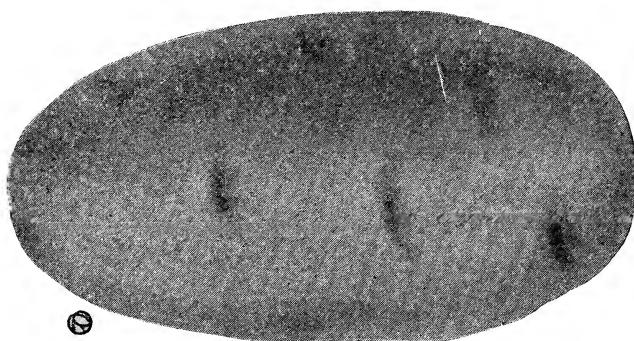
Reports from many sections this year say that the blight did not affect it. Withstands drought better than most varieties.

Prices: 10 lbs. 50c, 50 lbs. \$1.50, 100 lbs. \$2.50.
By mail, postpaid, lb. 25c, 3 lbs. 60c.

HUNDRED FOLD

Most profitable of all for a medium early or main crop. While this is not a new introduction, it has only recently been planted here. Its extra good quality has induced us to grow and offer it to our customers. Many growers say it is far superior to the American Wonder, which is a strong indorsement. Hundred Fold is an oblong potato, slightly flattened, white in color, a good looker and a quick seller. It will out-yield the American Wonder 25 per cent. It is of the finest quality, cooking up white and floury, either baked or boiled, and is also an excellent keeper. An excellent variety for home gardens.

Prices: 10 lbs. 40c, 50 lbs. \$1.40, 100 lbs. \$2.50.
By mail, postpaid, lb. 20c, 3 lbs. 50c.



Pride of Multnomah.

Extra Early Bovee. (See pg. 35.)

GREAT DIVIDE for main crop

Every Potato saleable size; no "seconds"

A strong, healthy, vigorous grower, with abundant deep green foliage, capable of withstanding heat and drought. The tubers lie closely together in the hill and are handsome; oblong, thick and round in form, holding thickness well out to the ends; few and shallow eyes skin pure white, quite thin but firm and tough, readily pared with a minimum of waste, while the table quality is of the choicest, the flesh being pure white, dry and floury. It cooks quickly with a delicious nutty flavor. A most desirable and profitable variety.

Prices: 10 lbs. 50c, 50 lbs. \$1.50, 100 lbs. \$2.50.
By mail, postpaid, lb. 25c, 3 lbs. 60c.

SIR WALTER RALEIGH

We recommend this potato for a main late crop. It can be planted as late as July 1 and still mature a good crop. Especially valuable for low land on this account. Our grower says it has made the best continuous record of all the late varieties for yield, size, smoothness and handsome appearance. The tubers are good size, nearly round in shape but flattened—very few small ones. Skin is pure white, thin and transparent; eyes few and very shallow. It will do well on low ground or clay, where other potatoes would not be profitable.

Prices: 10 lbs. 50c, 50 lbs. \$1.40, 100 lbs. \$2.50.
By mail, postpaid, lb. 20c, 3 lbs. 50c.

Sweet Potato Plants

Rooted plants ready in May. The young plants should be set out in May or June in hills 5 inches above the ground level and 4 feet apart. A light soil and sunny location is preferable. Have your order booked now and be sure of plants when ready.

Plants 30c dozen; \$1.25 per 100,
postpaid; \$7.00 per 1000 by express.

We sell Potato Planters.
They save "backache."
See pg. 112.

RHUBARB or Pie Plant

VICTORIA, OR MAMMOTH.—Very large; most popular variety. Pkt. 5c; oz. 15c; 4-oz. 45c; lb. \$1.50

RHUBARB ROOTS

From October to June we can always supply one or two-year-old Rhubarb Roots. Customers will save much valuable time by ordering roots instead of seed. For prices, etc., see page 16.

BURBANK'S CRIMSON WINTER—

The new variety, which has become very popular and profitable to the grower, has a delicious fruity flavor, is extremely hardy, very prolific and very quick growing. Produces good stems all winter and spring
Pkt. 10c; oz. 60c; 4-oz. \$1.75

FRENCH GROWN RADISH SEED



The Best Early Round Radishes

R. R.'s SCARLET GEM.—This splendid radish is the very finest early strain of the round, bright red radishes. Nothing can surpass its table excellence or its beauty. The skin is bright scarlet, flesh pure white, crisp, tender and of delicious quality. Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 80c

SCARLET TURNIP, WHITE TIPPED (No. 5).—A beautiful variety, deep scarlet with white tip. Very early. Has small top and may be planted closely. It is most attractive in appearance and cannot fail to give satisfaction; very popular as a market sort. Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 60c

SCARLET GIANT (No. 6).—The largest early scarlet turnip-shaped radish. But, notwithstanding its immense size, does not get hollow and pithy. The flesh is a sparkling white, solid, crisp, juicy and of the mildest flavor. The bright, deep crimson color of the skin remains quite constant. Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 70c

EARLY SNOWBALL (No. 4).—A grand improvement on the White Box or White Turnip Radish; very early, of a clear white color, solid, juicy, crisp, tender and unsurpassed in flavor. Pkt. 10c; oz. 10c; 4-oz. 30c; lb. 75c

The Four Best Long Radishes

WHITE ICICLE (No. 3).—This superb radish is pure white and most attractive. It is not only crisp and tender when young, but retains these qualities until the roots attain large size. It is ready for use almost as quickly as the early turnip-shaped sorts; excellent for successive sowing to give a continuous supply of tender, crisp radishes throughout the season.

Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 80c

LONG BRIGHTEST SCARLET, WHITE TIPPED (No. 1).—One of the brightest and handsomest scarlet radishes known, and a decided improvement in earliness and color over other varieties of this class. Roots mature quickly and continue in good condition until full grown.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 60c

WELL-KNOWN POPULAR VARIETIES. (All 5c Pkt.)

Early Scarlet Turnip.—Small top; of quick growth; mild and crisp.

Oz. 10c; 4-oz. 25c; lb. 60c

Early Deep Scarlet, Olive Shaped.—Excellent deep red, early, crisp.

Oz. 10c; 4-oz. 25c; lb. 70c

French Breakfast (No. 7).—Very popular; bright scarlet, tipped white.

Oz. 10c; 4-oz. 25c; lb. 60c

Early Long Scarlet, Short Top.—Straight, smooth, brittle and crisp; excellent sort.

Oz. 10c; 4-oz. 25c; lb. 60c

Lady Finger, or White Vienna.—Of rapid growth and beautiful shape; skin and flesh snow-white; very juicy, firm, crisp and tender.

Oz. 10c; 4-oz. 25c; lb. 60c

Early White Turnip.—Same shape as No. 4, white skin, tender and crisp.

Oz. 10c; 4-oz. 25c; lb. 60c

WINTER RADISHES

The merits of Winter Radishes are little appreciated. These grow to large size and keep well for winter and spring use. Sow seed in July and August. Early planting is not advisable.

SAKURAJIMA.—Japanese variety; grows to enormous dimensions; globe in shape. The skin is white and the flesh is always crisp and tender.

piquant; largest at the bottom. One of the best. Pkt. 5c; oz. 10c; 4-oz. 30c; lb. 80c

Pkt. 10c; oz. 20c; 4-oz. 60c

Long Black Spanish.—Very popular; latest, as well as the hardiest. Roots of medium size, oblong, black.

Pkt. 5c; oz. 15c; 4-oz. 25c; lb. 75c

Round Black Spanish.—Three or four inches in diameter; flesh white; good keeper.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 75c

SQUASH

No. 1—Yellow Bush Scallop

No. 2—White Bush Scallop
No. 3—Crookneck

Mammoth White Bush Scallop

The fruit is a beautiful, clear, waxy white; superior in size and beauty, and is quite uniformly warted. The handsomest of the scalloped squashes. The stock we offer is exceptionally true to type.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 90c

Yellow Bush Scallop

A very early, flat, scallop variety of large size; color yellow; flesh pale yellow and well flavored. Has a very small seed cavity.

Pkt. 5c; oz. 10c; 4-oz. 25c; lb. 90c

Fall and Winter Varieties

Boston Marrow

A popular variety, with large oval fruit; skin bright reddish orange, with light cream netting; flesh orange, fine-grained and of excellent quality. This is the most popular variety for canning. The fruit makes a rich orange-red and deliciously flavored dish.

Pkt. 5c, oz. 10c, 4 oz. 30c, lb. 70c

Mammoth Chili

The largest of all squashes, growing to an enormous size, often weighing over 200 pounds, while its rich, fine flavored flesh insures its value for all purposes. Its size makes it valuable for stock feeding.

Pkt. 5c, oz. 15c, 4 oz. 40c, lb. \$1.25

Golden Hubbard

The same in size, shape and quality as the well-known Hubbard Squash, except that it is a bright red or golden color and somewhat earlier. It is also a long keeper. Considered by expert judges to be one of the very best fall and winter sorts yet introduced. Matures before the frosts; is vigorous and wonderfully productive. In flavor it has no equal.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

Golden Summer Crookneck

Early and prolific. The fruits are of the true crookneck type, heavily warted and of light golden color. Fruits when matured are about one foot long. One of the most popular sorts for home and market.

Pkt. 5c; oz. 15c; 4-oz. 30c; lb. 90c

Vegetable Marrow

A large, oblong variety, producing fruit which is dark green at first, becoming marbled and striped with yellow and lighter green as they mature.

Pkt. 5c, oz. 10c, 4 oz. 30c, lb. 90c

New Delicious

This new fall and winter squash resembles the old Hubbard; flesh exceedingly thick, compact, fine-grained; color golden orange. The paramount merit of this variety is surpassing quality. The flesh is meaty, granulated, tender and almost of mealy dryness, cooking sweet and rich, whether steamed, baked, boiled or made into pies.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

True Hubbard

One of the best of the winter squashes. Vines vigorous and very productive. Fruit large, heavy, moderately warted, with very hard shell. Skin uniformly dark bronze green. Flesh bright orange-yellow, fine grained, thick, dry and richly flavored. Can be kept in good condition until spring. It is esteemed by many to be as good baked as the sweet potato. Our stock is carefully selected in regard to quality of the flesh and color of the shell, and is much superior to most seed offered.

Pkt. 5c, oz. 15c, 4-oz. 35c, lb. \$1.00

SPINACH

IMPROVED THICK-LEAVED.—A variety which grows very rapidly, forming a cluster of large, very thick, slightly wrinkled leaves of fine color and quality when cooked; best for market gardeners.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 40c

LONG STANDING.—An improved variety of excellent quality for general use; slow going to seed.

Pkt. 5c; oz. 10c; 4-oz. 15; lb. 35c

BLOOMSDALE SAVOY LEAVED.—Very early; of upright growth; leaves pointed; plant in the autumn for spring use; grows quickly.

Pkt. 5c; oz. 10c; 4-oz. 15c; lb. 35c

\$1.25 FOR \$1.00, CASH
You can select \$1.25 worth of seeds in packets and ounces for \$1.00. See inside front cover.



Improved Thick Leaved.

When it comes to the cheapest prices, we are "not in it;" we don't want to be; but when you want "quality," something "better," that's where we win out. Try us.

SALSIFY—Oyster Plant

The roots are long and tapering; when cooked has a flavor like oysters. If more people knew how many fine dishes are made out of Salsify Roots it would be much more extensively planted. Same culture as carrots. Roots good all winter.

Mammoth Sandwich Island.—The best variety of Salsify, being very smooth, of fine quality, pure white and extra large size.

Pkt. 5c; oz. 15c; 4-oz. 40c; lb. \$1.25

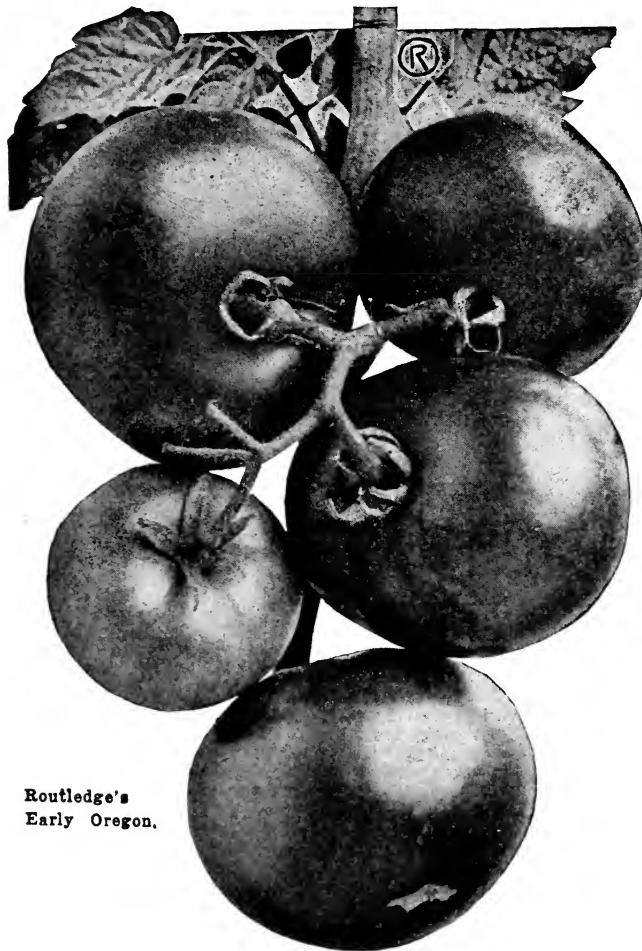
SUNFLOWER

Every farmer and poultry raiser should raise sunflowers, for the seed is very fattening and contains a high percentage of protein, an excellent egg feed. Mammoth Russian.—The largest and best for seed. Large pkt. 50; 4-oz. 10c; lb. 35c, postpaid

BIG CROPS are produced by using
"Beaver Brand" Fertilizer, pg. 46.
Wonder Odorless Fertilizer, pg. 47.

TOMATO

Tomato Plants in any quantity. See Vegetable Plant list, pg. 16.



Routledge's Early Oregon.

SPARKS EARLIANA.—The earliest tall variety, forming ripe fruit much earlier than any other variety. The fruit is large, smooth, of a bright scarlet color and of fine quality. Very valuable for early market use. Similar, but far superior, to Atlantic Prize. Pkt. 100; oz. 300; 4-oz. 850

Matchless.—Tall-growing, prolific, large fruit, smooth and uniform; color bright scarlet. For canning and general main crop market there is no better tomato grown. Pkt. 50; oz. 300; 4-oz. \$1.00

Dwarf Champion.—Forms a strong, erect, bushy plant 2 feet high; often sold as Tree Tomato. Fruit smooth, medium sized, solid and of good flavor. Pkt. 50; oz. 300; 4-oz. \$1.00

Red or Yellow Cherry.—Fruit small, about five-eighths of an inch in diameter; perfectly round and smooth; fine for pickles and preserves. Pkt. 50; oz. 250

Comet

The Best Tomato for Greenhouse Forcing.—A recent variety, matchless in form and color. Beautiful, smooth, round fruit in great abundance. Color a rich scarlet-red. Sets very freely in bunches. Equally good for outdoor culture as for forcing.

Pkt. 15c; ½-oz. 40c; oz. 75c

Chalk's Early Jewel

The largest, smoothest and finest flavored, extra early bright red tomato, about 10 days later than Spark's Earliana. It is a heavier cropper, with tomatoes of larger size and sweeter flavor, produced throughout the season. The plants are of bushy, compact growth, heavily loaded with fruit. The tomatoes are of good size, just right for market; are very solid and deep through, being almost round; color bright scarlet, ripening to the stem without cracks or green core. The flesh is thick, solid, of fine flavor, with few seeds. The skin is strong enough to make it a good shipping variety.

Pkt. 10c; oz. 300; 4-oz. 90

Routledge's Early Oregon

The earliest of all the good varieties, very hardy and succeeding everywhere. The Early Michigan, Fordhook and Atlantic Prize are good sorts, but the Early Oregon is superior to these in shapeliness, color, size, smoothness, solidity and flavor, as well as being earlier. When we say the earliest tomato we of course mean the earliest good tomato. There are several sorts a very little earlier, but they are gnarled, ridged, small, tasteless and unworthy the name of tomato and unfit for use. Those wishing to have the earliest good tomato should raise our Early Oregon. Try it; you will not be disappointed.

Pkt. 10c; ½-oz. 20c; oz. 30c; 4-oz. \$1.00

STONE.—Grown very extensively for a main crop by market gardeners; very large, smooth and solid, of a bright red color and a heavy yielder; of excellent quality and not subject to rot.

Pkt. 5c; oz. 25c; 4-oz. 75c

Ponderosa.—A purple-fruited tomato of largest size; vine vigorous and very productive; fruit very solid, fairly smooth and considered of very good quality, especially by those who prefer a tomato quite free from acid.

Pkt. 10c; oz. 30c; 4-oz. \$1.00

Yellow Husk or Ground Cherry.—Used for preserves and eating from the hand. The seed we offer is that of the true Yellow Ground Cherry, not the purple-fruited sort, which is scarcely edible.

Pkt. 5c; oz. 30c

Yellow or Red Pear.—Used for preserves and to make "tomato figs." Fruit distinctly pear-shaped and of excellent flavor.

Pkt. 5c; oz. 25c

Increase the yield and quality of your Tomatoes by using a good plant food. See pg. 47. WONDER ODORLESS FERTILIZER will do it; a spoonful to a plant.

TOBACCO

Culture practically same as cabbage.

Havana or Connecticut Seed Leaf.—Both good, hardy varieties for general planting here.

Pkt. 5c; oz. 25c

TURNIP

Extra Early Purple Top Milan.—This variety is ready for the table sooner after planting than any other; flesh white, firm and delicate.

Pkt. 5c; oz. 15c; 4-oz. 35c; lb. \$1.25.

White Milan.—Same as above, but pure white; sweet and tender.

Pkt. 5c; oz. 15c; 2-oz. 15c; 4-oz. 20c; lb. 60c

EARLY PURPLE TOP (Strap Leaved).—One of the best and most universally grown; flesh firm, but very tender and sweet; of quick growth, it is soon ready for the table and keeps well.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

EARLY WHITE FLAT DUTCH.—A leading white-fleshed variety and one of the best, either for the family, market garden or field crop; it is medium size and produces a large crop; the flesh is firm, but tender and of a superior rich, buttery flavor; a good keeper.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

ORANGE JELLY, OR GOLDEN BALL.—Undoubtedly one of the most delicate and sweetest yellow fleshed turnips; not large in size, but firm, crisp and most excellent flavor; keeps well and is superior as a table variety.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c

Amber, or Yellow Globe.—One of the best yellow-fleshed varieties; skin clear yellow; is of good size and fine flavor.

Pkt. 5c; oz. 10c; 2-oz. 15c; 4-oz. 20c; lb. 60c



Early Purple Strap Leaf.

EARLY SNOWBALL.—A superior table variety, meltingly tender, with snow-white flesh. This delicious turnip is one of the best varieties ever offered. Snowball matures six weeks after sowing, the bulb being small, smooth and perfectly globular. The flesh sparkling white, fine-grained, sweet and tender, with smooth, white, delicate, thin skin. We strongly recommend Snowball to all who want the best early table turnip.

Pkt. 5c. oz. 10c, 2-oz. 15c, 4-oz. 25c, lb. 65c

WHITE EGG.—Is perfectly smooth, of a pure clear white; a very choice kind for table use; of excellent flavor, sweet and mild; pulls clean from ground; thin, snow-white skin.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 65c

COWHORN (Long White).—Slightly crooked; pure white, except a little shade of green at the top; grows half out of the ground and is of very rapid growth; is delicate and well-flavored; has proved itself one of the best stock turnips ever introduced in Oregon.

Pkt. 5c, oz. 10c, 2-oz. 15, 4-oz. 25c, lb. 60c

PURPLE TOP WHITE GLOBE—A very heavy cropping, globe-shaped variety, with white skin and flesh; excellent flavor and much in favor with the market gardeners and dairymen.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 60c

YELLOW ABERDEEN.—Round, medium size; light yellow; produces a large crop; is hardy and keeps well; flesh very firm, but tender and sweet; a great favorite with the dairymen.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 60c

RUTABAGA, OR SWEDE TURNIPS

For feeding stock in fall and winter there is nothing superior to turnips and rutabagas, as they are much liked by all kinds of stock, and serve to keep them in good condition. We cannot too earnestly recommend farmers to increase their sowings largely, for we are sure the crop will prove remunerative.

IMPROVED AMERICAN PURPLE TOP.—The leading and most popular variety, being very distinct in type, attaining a wonderfully large size; immense yielder; the flesh is very firm, superior in every way; valuable alike for all purposes.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 60c

WHITE SWEET GERMAN.—This variety is most excellent either for table or stock; it grows to a very large size; flesh white, solid, of a firm texture, sweet and rich; an excellent keeper.

Pkt. 5c, oz. 10c, 2 oz. 15c, 4 oz. 20c, lb. 60c

HERB SEEDS

POT, SWEET AND MEDICINAL

Herbs in general delight in rich, mellow soil. Those marked with a (*) are perennial. We offer some of the most useful and popular. They should be cut on a dry day, just before they come into full bloom, and tied in bunches and hung up or spread thinly on a floor where they can dry quickly.

ALL THE FOLLOWING HERBS, 5c PER PACKET

	Oz.	Oz.
Anise.—Seeds aromatic; used medicinally.....	20c	20c
*Balm.—For culinary purposes.....	25c	25c
Basil.—Sweet; for flavoring soups.....	20c	20c
Borage.—For flavoring; also bee pasture.....	15c	15c
Caraway.—For flavoring	15c	15c
*Catnip (Cat Mint).—Mild nervine for infants....	40c	40c
Coriander.—Used for flavoring.....	10c	10c
Dill.—Used medicinally and for pickles.....	10c	10c
Dandelion .....Pkt. 10c; 75c		
*Fennel.—Flavor of celery, but more delicate.....	10c	10c
*Horehound.—Bitter; for tonic.....	30c	30c
*Hysop		250
*Lavender.—For fragrance		250
*Marjoram.—Sweet; for flavoring.....		25c
Pennyroyal		Pkt. 10c; 75c
*Rosemary.—Aromatic oil		35c
Summer Savory.—For flavoring		15c
*Sage.—For tea flavoring and dressings.....		20c
Saffron.—For dyeing and powder.....		20c
Tarragon.—For seasoning		Pkt. 10c
*Thyme (Broad-Leaved).—For soup and flavoring.....		45c
*Wormwood.—Medicinal use		25c

HERB SEEDS FOR FLAVORING—POSTPAID

Anise.—Anise seed for flavoring $\frac{1}{4}$ -lb. 15c; lb. 45c

Caraway.—For the use of bakers and confectioners. $\frac{1}{4}$ -lb. 15c; lb. 35c

Coriander.—Coriander seed for flavoring. $\frac{1}{2}$ -lb. 20c; lb. 35c

Dill Seed.—Used to flavor soups, stews and pickles. $\frac{1}{2}$ -lb. 25c; lb. 45c

Mustard.—White or yellow.

Oz. 10c; $\frac{1}{4}$ -lb. 15c; lb. 35c

Poppy Seed.—Used for flavoring. $\frac{1}{2}$ -lb. 25c; lb. 35c

NOTE.—We will prepare special mixtures for shady places, low wet soils, very dry soils and terraces. Just mention it when ordering.

Lawn Mowers and Garden Tools, pgs. 106-111.



LAWN GRASS SEED

Upon no one thing does so much depend in making beautiful home grounds as upon a good lawn, for without that velvety green carpet, no place, however, lavishly planned or grandly built, looks finished.

The real lover of nature and the beautiful need never be disappointed in his lawn if care is used in the preparation of the soil and selection of his grass seed. Though we offer separately seed of many of the varieties suitable for the lawn, we consider as very erroneous the somewhat prevalent idea that any single variety of grass seed is preferable or equal to a mixture. Many of these varieties, though of great value as components, have characteristics which render them unsuitable for sowing alone. Kentucky Blue Grass, for instance, often recommended to be used alone, has decided merits and will do fairly well alone, but is of greater value when mixed with other grasses.

R. R.'s Evergreen Lawn Grass

To obtain a good Lawn Grass Mixture, it is necessary that the best possible seed of fine grasses be used in the combination, embracing such varieties as are of neat, close growth, extreme hardiness, and adapted to produce a quick, permanent sod. Judicious selection of seed, knowledge of the habits, vigor, quality and hardiness of varieties used in the mixture can only be gained by thorough and practical tests under different climatic and soil conditions. After more than 16 years' experience, we offer our Evergreen Lawn Grass Seed Mixture, composed of a thoroughly balanced combination of various native and foreign fine-leaved, deep-rooting grasses of interweaving habit, that will flourish under varied soil and climatic conditions, and which may be depended upon to produce a beautiful, compact evergreen sod that will resist trampling and hard usage, and at the same time present that handsome, velvety appearance so much desired.

Price, 35c per lb, in any quantity; can't be sold for less; 45c postpaid.

Note.—You better spend a few cents or a dollar extra on the seed you buy and have a fine lawn that you'll be proud of. Sow 1 pound seed to 15 feet square for best results.

FAIR GREEN LAWN GRASS.—For those that are not so particular or for ordinary purposes, this mixture will give satisfaction. It is not a cheap mixture; far from it. We know it is equal to most fancy or special mixtures being offered.

Per lb. 25c, postpaid 35c

CLOVER SEEDS—ALFALFA

RED (*Trifolium Pratense*).—Hardy, and succeeds well on any good soil.

10 lbs. \$1.75, 100 lbs. \$16.50; per lb. postpaid, 30c

WHITE (*Trifolium Repens*).—Used largely in lawns and permanent pastures; accommodates itself to a great variety of soils. Fancy clean seed is very scarce and high; beware of low priced seed this season.

Choice Seed, 10 lbs. \$4.00; per lb. postpaid, 50c
Fancy Seed, 10 lbs. \$4.50; per lb. postpaid, 55c

CRIMSON OR SCARLET CLOVER (*Trifolium Incarnatum*).—A thrifty annual. It germinates quickly, grows rapidly and stools abundantly.

10 lbs. \$2.00; per lb. postpaid, 35c

Write for 100-lb. prices when ready to buy.

ALSIKE (*Trifolium Hybridum*).—Valued highly for sowing with other grasses. Excellent for hay and pasture; valuable for bees; resists both drought and excessive moisture.

10 lbs. \$2.25, 100 lbs. \$20.00; per lb. postpaid, 35c

ALFALFA, OR LUCERNE CLOVER (*Medicago Sativa*).—As soon as cut it immediately commences to grow, and on the low lands it is not an unusual thing to harvest five or six crops of hay from the same field in one season without irrigation, and the same result is obtained on high, dry lands where irrigation is resorted to. It will not succeed on hard, clayey soils.

10 lbs. \$1.75, 100 lbs. \$17.00; per lb. postpaid, 35c

DRY LAND ALFALFA.—For high, dry, hot land, where irrigation is impossible.

10 lbs. \$2.00, 100 lbs. \$19.00; per lb. postpaid, 35c

PLEASE NOTE—Above prices subject to market changes. Write for net prices when ready to buy, or order at above prices and we will send you full value, whether MORE or LESS.



GRASS AND FIELD SEEDS

ABOUT PRICES PLEASE READ FOLLOWING PARAGRAPH ABOUT PRICES

Only one grade priced, the best, choice, clean seed. Write for prices in quantity.

Prices on Grass and Clover Seeds per single pound include postage. Prices per ten, fifty and one hundred pounds are by express or freight, purchaser paying transportation charges. They are subject to market changes.

YOU WILL ALWAYS GET YOUR MONEY'S WORTH.

Prices on Grass and Field Seeds change occasionally, therefore we cannot print prices good for any length of time. When ready to buy, write us for special prices, stating quantity, or order what you want at catalog prices, and we guarantee that we will give you full value for the money sent, whether the price at the time you order be higher or lower. In other words, we will always ship seed to cover the full amount of money sent to us.

GRASS SEEDS

KENTUCKY BLUE (*Poa Pratensis*).—Remarkable for its ability to adapt itself to a great variety of soils, succeeding on an average dry soil as well as on a moist meadow. An abundant yielder and presents a handsome green appearance early in the spring, thus making it of great value for lawn mixtures. Our extra fancy grade for lawns is unequalled.

Extra fancy, 10 lbs. \$3.00; per lb. postpaid, 40c
Fancy, 10 lbs. \$2.50; per lb. postpaid, 35c

ORCHARD (*Dactylis Glomerata*).—Of the greatest value in permanent pasture mixtures; thrives best in moist, shady places, but will withstand drought exceedingly well. Valued for hay crop, as it is very nutritious if cut early. Its inclination to grow in tufts necessitates other grasses being sown with it.

10 lbs. \$2.25, 100 lbs. \$20.00; per lb. postpaid, 35c

ITALIAN RYE (*Lolium Italicum*).—A quick-growing grass, attaining a height of $2\frac{1}{2}$ to 4 feet; very desirable for meadows or permanent pastures; thrives best on soils that are slightly moist, and will even stand considerable overflow; grows easily and bears an abundance of foliage that makes the best and sweetest hay imaginable.

10 lbs. \$1.00, 100 lbs. \$7.50; per lb. postpaid, 25c

BROMUS INERMIS (*Russia Forage Grass*—*Awnless Brome Grass*).—This Bromus, on account of its strong perennial character, and its unusual drought-resisting powers, is the best grass we have for the semi-arid regions of the Northwest. It grows luxuriantly, is freely eaten in either the dry or green state by cattle, and yields enormously, making the best of hay for horses or cattle. It is perennial, and yields from 4 to 6 tons to the acre.

10 lbs. \$1.75, 100 lbs. \$16.50; per lb. postpaid, 30c

RED TOP (*Agrostis Vulgaris*).—Perennial, 1 to 2 feet; July. Of great value for mixing with lawn, hay or permanent pasture grasses; will succeed in nearly any soil, but thrives best in a rich, moist soil; makes a fine bottom growth, rendering it invaluable to be sown with grasses, such as timothy and orchard; should be fed close if for pasture, as it is not relished after it grows up to seed.

Choice Seed, not hulled, 10 lbs. \$2.00, 100 lbs. \$18.00; per lb. postpaid, 35c.
Fancy Hulled Seed, 10 lbs. \$3.25; per lb. postpaid, 45c.

SWEET VERNAL, TRUE PERENNIAL (*Anthoxanthum Odoratum*).—Per lb., postpaid, \$1.00

TIMOTHY, OR HERD'S (*Phleum Pratense*).—Perennial; 2 to 3 feet; June and July. As a hay crop, timothy is unsurpassed by any other grass. Thrives on ordinary soil, but succeeds best in a moist loam. Remarkably nutritious, especially when ripe, but as it is also hard and coarse at that stage, it is better to cut it when in blossom or soon after flowering. Beneficial to sow timothy with, red top and red clover, as they produce more of a bottom growth. Not suited to sandy or light or gravelly soils.

10 lbs. 85c, 100 lbs. \$6.50; per lb. postpaid, 20c

ENGLISH RYE GRASS (*Lolium Perenne*).—Perennial; 15 to 24 inches; June. A valuable variety; used for lawn, permanent pasture and mowing mixtures; forms a very compact sward, and if cut when in blossom is very nutritious; very vigorous in most situations.

10 lbs. \$1.00, 100 lbs. \$8.00; per lb. postpaid, 25c

RHODE ISLAND BENT (*Agrostis Canina*).—Forms a very fine turf even on light soils; desirable for lawns, as it forms a very close sward.

10 lbs. \$3.50; per lb. postpaid, 45c

CREEPING BENT (*Agrostis Stolonifera*).—Perennial. A grass desirable for either lawns or permanent pasture on account of the fine, firm and enduring turf it produces; specially adapted to moist situations.

10 lbs. \$3.50; per lb. postpaid, 45c

HARD FESCUE (*Festuca Duriuscula*).—Thrives well in dry soils; comes early and withstands long droughts; very nutritious as a hay crop and valuable for permanent pasture.

10 lbs. \$2.75; per lb. postpaid, 40c

SHEEP'S FESCUE (*Festuca Ovina*).—Short and compact; especially adapted for dry, upland pastures.

10 lbs. \$2.25; per lb. postpaid, 35c

SWEET VERNAL ANNUAL (*Anthoxanthum Odoratum Puelii*).—Valued chiefly for its odor.

10 lbs. \$2.80; per lb. postpaid, 40c

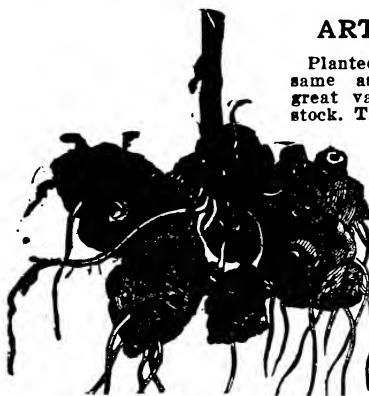
MESQUITE (*Holcus Lanatus*).—It is usually sown on virgin soil, without cultivation, after the ground has been burned over; sow about 15 pounds seed to the acre.

10 lbs. \$1.75; 100 lbs. \$16.50; per lb. postpaid, 25c

NOTE—We know you can buy cheaper grass seeds from other dealers. We offer only the **BEST RECLEANED HEAVY CLEAN SEEDS**—really cheapest to buy.

FIELD AND MISCELLANEOUS FARM SEEDS

Single pound prices include postage. If ordering by freight or express, deduct 10c per pound. Ten, fifty and one hundred pound prices subject to market changes. Seed to cover amount remitted always sent unless otherwise ordered. See notes page 42. Write for prices on larger quantities when ready to buy.



Artichoke Tubers

ARTICHOKEs

Planted and cultivated same as potatoes. Of great value for feeding stock. They are the best hog feed known. They are remarkable for their fattening properties, great productivity, over 1000 bushels having been raised on 1 acre. Easier to grow than potatoes. They need not be dug. If hogs are turned in on

them they will help themselves by rooting. One acre will keep from twenty to thirty hogs in fine condition from October until April, except when the ground is frozen too hard for them to root. They are also said to be a preventive of cholera and other hog diseases, and they are also highly recommended for milch cows, increasing the yield of milk, and at the same time improving their condition. Plant 10 bushels per acre early in the spring.

White French, most profitable variety, per lb., postpaid, 15c. By freight or express, pack, 50c; $\frac{1}{2}$ -bu. 75c; bu. \$1.25; 5-bu. \$5.50; 10-bu. \$10.00.

BUCKWHEAT

SILVER HULL.—A very good and popular variety; grain is of a light gray color; has a thin husk; matures early, and yields heavily; a good milling variety.

10 lbs. 75c, 100 lbs. \$5.00; per lb. postpaid, 20c

JAPANESE.—Good yielder, ripens early; excellent for bee pasture.

10 lbs. 75c, 100 lbs. \$5.00; per lb. postpaid, 20c

BARLEY

BEARDLESS.—The earliest barley known. The straw is about the height of the common barley, but better, and will stand up on any land; with good season, land has produced 80 bushels per acre. Sow as early as you can; frost does not hurt it. Many farmers will not grow barley on account of the long, harsh beards, which are so disagreeable in threshing, although it is a profitable crop. This is beardless, and as easy to grow and handle as oats. It is becoming more popular each season.

10 lbs. 40c, 100 lbs. \$3.00; per lb. postpaid, 15c

WHITE HULLESS (Bald Barley).—A grand barley for stock feeding. Grain plump, heavy, and when threshed is hulless like wheat; a heavy cropper. When grown and cut for hay it produces a magnificent crop, which is very rich and almost equal to a grain feed. Much relished by horses and stock of all kinds. An excellent hog feed. Culture same as common barley.

10 lbs. 50c, 100 lbs. \$3.50; per lb. postpaid, 20c

COMMON.—We always aim to have a nice, clean stock of good seed barley on hand at all times.

10 lbs. 35c, 100 lbs. \$2.25; per lb. postpaid, 15c

Goldson, Oregon.
Routledge Seed & Floral Co.

Gentlemen: We were greatly pleased with the Turnips we raised from your seeds last year. So we must have them again.

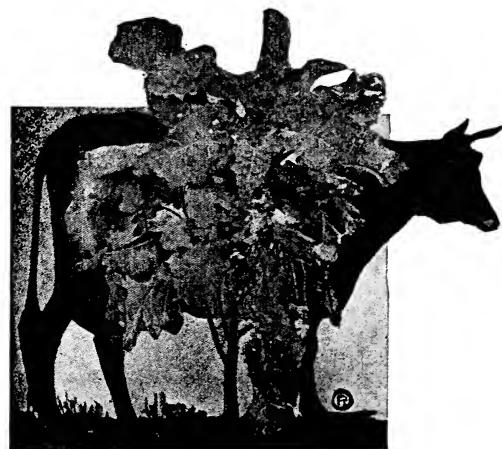
MISS AGNES KRUEGER.

Single pound prices on Grass Seed include postage, and one hundred pound prices subject to change. See notes page 42. See table inside back cover.

COW KALE—Thousand-Headed Kale

Recommended by agricultural colleges, granges and dairymen who have tested it as one of the most valuable forage plants for this Coast. It grows rapidly and produces a mass of thick, curly green leaves, rich and succulent, which are eagerly eaten by sheep, cattle and horses. Especially recommended for green feed during the dry summer months. Sow in drills two to three feet apart, four pounds to the acre, and thin out as needed. Makes the most rapid growth if sown in the early spring, but can be sown in summer and fall for winter feed. Will stand light freezing. Stalks can be cut off, or the larger lower leaves broken off, leaving the tops to grow.

Pkt. 5c; oz. 10c; $\frac{1}{4}$ -lb. 20c; lb., postpaid, 40c; 10 lbs. \$8.00.



Thousand-Headed Kale

This cut is from photo, and gives you a good idea of the size and plant when well grown.

CHEAT SEED

Cheat seed yields a good crop of hay, especially on low or moist soil, and will stand considerable overflow without harm. It makes an excellent hay for cows or horses, but should be cut before it gets too ripe. Sow in the fall or early spring, same as oats and about 100 pounds per acre.

10 lbs. 50c; 100 lbs. \$2.25. Per lb., postpaid, 15c

COW PEAS

These so-called "Cow-Peas" are really a small bean of strong running growth, with a large and abundant, glossy, dark green foliage. Desirable for enriching the soil and for furnishing a large crop of nutritious forage, although we believe field peas are better for most locations here. The vines may be cut either for feeding green or can be cured like clover for winter use. Sow two bushels per acre.

10 lbs. \$1.00; 100 lbs. \$8.00. Per lb. postpaid, 25c

Riffe, Wash., Feb. 12,
Dear Sirs: I have never been so well pleased
with seeds and plants as I am with the ones
you sent me last year, and although my order
was small, I got more seeds than usual for the
amount of money sent, and such good seeds.

Yours truly,
MRS. ROSE COLEMAN.

Every farmer needs a broadcast seed sower—the "Cahoon" is best. See page 110.

In ordering by freight, deduct 10c per lb. Ten, fifty and one hundred pound prices subject to change. See notes page 42. For amount of seed to sow per acre

Farm and Field Seeds—Continued

FIELD CORN

If you want to raise some good Field Corn, plant our Western grown Seed Corn. The strains we are offering you are acclimated and especially adapted to our short, cool summers. Eastern and Southern grown field corn seed is all right for green fodder, but of little value on this Coast, if you want to raise matured, dry ears.

ROUTLEDGE PRIDE OF THE WEST

(Sample Ears on Display at Our Store.)

This new Field Corn is a grand success in Oregon. We have been raising this variety for six years, and by selecting the earliest ripening and best select ears, now have a strain that is a revelation to many people who have thought Oregon and Washington could not raise profitable field corn.

Routledge Pride of the West field corn is an early maturing variety, producing stalks from 6 to 8 and 10 feet high, and large ears, 8 and 9 inches long. Cobs covered with 14 to 16 rows of deep, yellow kernels. It is a heavy yielder. Our grower reports having harvested over 85 bushels dry seed per acre—going some, eh? Plant some of this corn this season; you will be pleased with results, we are sure. Stock limited, so order early. Large Pkt. 10c; lb. 20c, postpaid. By freight or express, your expense, lb. 10c; 10 lbs. 85c; 100 lbs. \$7.50.

Lone Rock, Ore.

Routledge Seed & Floral Co.

Portland, Ore.

Gentlemen: I bought some of your Pride of the West Field Corn Seed, and was much pleased with results. I am going to plant more this year.

Yours truly,

JAY CRENKSHAW.

PRIDE OF THE NORTH or YELLOW DENT

Recommended by the Agricultural College, for Eastern Oregon, Washington and Idaho. A quick growing dent variety, thriving well where the summers are not very long. Bright golden color. 1 lb. postpaid, 20c; by express or freight, 10 lbs. 75c; 100 lbs. \$6.00

MINNESOTA KING (Dent)

Recommended by the Agricultural College as best for Western Oregon and Washington. Small cob and large grain. The ears are uniformly well filled out. Makes more shelled corn to a given bulk of ears than any other variety. Golden yellow and a good yielder. 1 lb. postpaid, 20c; by express or freight, 10 lbs. 75c; 100 lbs. \$6.00

MONEY MAKING

SEED OATS

OF SPECIAL MERIT

Routledge Prize Oats

This wonderful new oat, introduced by us in 1908, has proved in growing contests all we claimed for it. Routledge Prize certainly is a prize oat, and a real prize-winner at the county fairs wherever it has been shown. This grand oat belongs to the tree or branching class, and is a vigorous, healthy grower of strong stooling qualities and need not be seeded as heavily as most oats ($1\frac{1}{2}$ to 2 bushels per acre is ample.)

This is the heaviest yielding oat introduced to date. From several hundred samples we sent out, spring of 1908, the lightest yield reported was over 100 bushels per acre, and from that up to 200 and 300 bushels—simply enormous.

Routledge Prize Oat is a very early, drought-resistant variety. Grain of good size, plump and heavy. White seeded variety.

Prices: By mail, postpaid, 1 lb. 25c; 4 lbs. 75c; By freight or express, peck 60c; $\frac{1}{2}$ -bushel \$1.00; 1 bushel \$1.60; 3 bushels \$4.50.

NEW GIANT—Side Oat

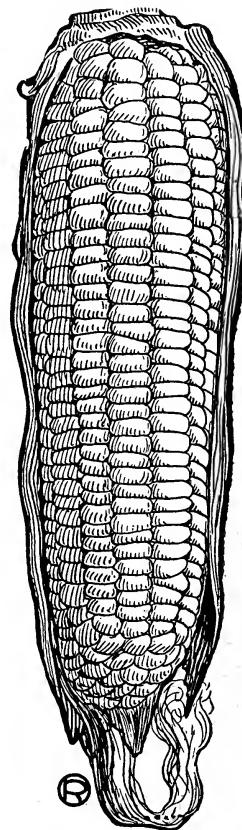
The earliest, most prolific and surest cropper. Wherever this oat is seen it speedily comes into great favor. For a spring oat for seeding in March and April it is unquestionably the best; matures early; is free from rust; makes a vigorous growth, and produces a remarkably good yield of clean, bright, heavy grain. Price: Per lb. 20c, or 4 lbs. for 60c, postpaid. By express or freight, per peck 60c; per bu. \$1.50; 3 bu. \$3.50.

WHITE, GRAY OR BLACK SEED OATS

We always aim to have a selected, recleaned stock of good White, Black or Gray Seed Oats. Can sell them at about market price for No. 1 seed. When ready to buy, write us for prices, stating quantity wanted, or order at \$1.00 per bu., 3 bu. \$2.50, and you will get good value.

DON'T

PRACTICE FALSE ECONOMY BY BUYING LOW-PRICED SEEDS. IT DON'T PAY.
OUR MOTTO—QUALITY FIRST, PRICE AS LOW AS WE CAN MAKE IT.



Routledge Pride of the
West Field Corn

FIELD PEAS

Field Peas are a very profitable crop and are grown here very extensively. They can be grown alone or with oats. When planted with grain and cut green they make a large amount of very rich feed; also very valuable for enriching the soil if plowed under. The dry peas make excellent hog-feed and are quite fattening. Sow, if alone, 120 pounds to the acre; if with other grain, 60 pounds.

WHITE CANADIAN.—A leading and most popular kind; seed almost white; a heavy cropper. 10 lbs. 60c; 100 lbs. \$4.50. Per lb. postpaid, 20c.

KAFFIR CORN

An excellent fodder plant. It does best sown in drills three feet apart. 10 lbs. 60c; 100 lbs. \$4.00. Per lb. postpaid, 20c

MILLETS

Sow in April, May or June, 12 pounds for seed or 20 pounds for hay per acre.

Early Fortune

This variety seems to do extra well here; try it. Heads large and loose, and seed is amber red and three times as large as the German.

10 lbs. 75c; 100 lbs. \$6.50; per lb., postpaid, 20c

GERMAN.—An improved variety, yielding a larger crop of seed than the common millet. It is also taller than the common, and yields a heavier crop of hay. 10 lbs. 65c; 100 lbs. \$5.50; per lb., postpaid, 20c

HUNGARIAN.—A dwarf annual millet. It is finer than the common or German millets, but produces a closer stand, and yields almost as much per acre as the taller varieties; superior for hay.

10 lbs. 70c; 100 lbs. \$5.50; per lb., postpaid, 20c

For price on Millet for feed, see Poultry Foods.

POTATOES FOR SEED

Don't overlook the valuable and up-to-date Seed Potatoes we offer on pages 34-35.

RYE FOR SEED

Per lb., postpaid, 15c; 10 lbs. 35c; 100 lbs. \$2.50.
For quantity prices write when wanted.

When ready to buy, write for prices or order amount you want at the rate of \$2.50 per 100 lbs., and we will send you full value in the best seed obtainable in the Portland market.

RAPE, DWARF ESSEX

We offer you true, pure seed. One of the best forage plants, on account of the large amount of green feed it will produce at a season of the year when everything else is dried up. It has yielded ten tons of green forage per acre, and has twice the feeding value of green clover. Sheep, swine, cattle and poultry eat it readily. Rape will do well on almost any soil. Prepare the ground as for turnips, and sow any time from May till September; or plant it with grain. Sow, per acre, four pounds, in drills; or, if broadcast, eight pounds. Lb. 15c, 10 lbs. \$1.25, 100 lbs. \$10.00; per lb., postpaid, 20c

SPELTZ

It will grow well and produce immense crops on poor soil. Dry weather seems to have no bad effect on it. After the grain is threshed out, the straw makes good hay. The grain has a hull, something like barley. Sow in the spring, the same as wheat, at the rate of two bushels per acre. Cut when the grain is past the middle stage of milk, when it will make splendid grain and lots of rich straw hay. Thresh like wheat, only not so closely. Can be fed whole, rolled like barley, or ground.

10 lbs. 50c; 100 lbs. \$3.00; per lb., postpaid 20c

VETCHES

OREGON VETCH (*Vicia Sativa*).—Oregon's greatest forage plant. Often called Fall Vetch. This is a species of the pea, and is grown very extensively in Western Oregon and Washington, especially in the Willamette Valley and on the Oregon coast. It furnishes an abundance of excellent feed, either green or dried. The seed should be mixed with an equal weight of some variety of wheat, oats, or rye having a stiff straw, and the mixture sown at the rate of two bushels per acre. Sow in the fall or early spring.

10 lbs. 50c, 100 lbs. \$4.00; per lb., postpaid, 20c

HAIRY SAND OR WINTER (*Vicia Villosa*).—This variety thrives on poor arid, sandy soils. It is sown in the fall or spring, mixed with rye, which serves to support the plants. Sow 20 pounds per acre.

Lb. 20c, 10 lbs. \$1.80; per lb., postpaid, 20c



Vetches

For Farm and Garden Tools, Seeders, etc., see pages 107 to 113.



Millet

SEED WHEAT



"Beaver Brand" Animal Fertilizer

Properly prepared and carefully mixed and put up under the new state fertilizer law with guaranteed analysis. Send for our FERTILIZER BOOKLET, giving full information, tables, tests, amount per acre and reasons why "BEAVER BRAND" is the best and cheapest fertilizer on the market, quality and price considered. Low prices by the ton.

ROSELAWN.—Prepared especially for use on lawns, also excellent for rose bushes and home gardens. A quick acting yet lasting fertilizer; high grade, properly prepared, ground fine and should be scattered broadcast on the lawn at the rate of 100 lbs. to the average city lot, when making a new lawn or about half the amount as a top dressing in the spring, using the balance for bushes and garden. Put up in 50 and 100-lb. sacks, also in 10-lb. patent cover air-tight cans that can be carried home on a street car. Prices: 10-lb. pails, 50c; 50-lb. sacks \$1.75; 100-lb. sacks \$3.00.

GENERAL GARDEN FERTILIZER—"D."—Practically all garden truck requires a good percentage of phosphoric acid and potash. "BEAVER BRAND D" Animal Fertilizer is prepared especially for gardens and the following formulae developed after much investigation. In comparing prices, note carefully the very high Guaranteed Analysis: Ammonia, 4 per cent; phosphoric acid, 9.29 per cent; potash, 6 per cent. Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.50.

POTATOES AND ROOTS—"E."—These products require a good percentage of phosphoric acid and potash, with a much less percentage of nitrogen. Therefore use BEAVER BRAND "E" Fertilizer. Guaranteed analysis: Ammonia, 3.04 per cent; phosphoric acid, 11.05 per cent; potash, 12 per cent. Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00. Low price by the ton.

VINES AND BUSHES—"A."—To produce a good, healthy body and both quality and quantity in fruit, all vines and bushes should be well fertilized. They draw phosphoric acid very heavily from the soil. We recommend BEAVER BRAND "A" Fertilizer. Guaranteed analysis: Ammonia, 3 per cent; phosphoric acid, 12.70 per cent; potash, 3 per cent. Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00.

FRUITS AND BERRIES—"B" or "C."—Fruits and berries must have a good supply of phosphoric acid and potash, particularly phosphoric acid, to insure the best results both as to quality and quantity. If you cannot fertilize all of your land, at least make a small trial. On the above crops which are doing fairly well, we recommend BEAVER BRAND "B" Fertilizer, to maintain the fertility and increase quality and quantity. Where the crops have been very poor, use BEAVER BRAND "C" Fertilizer, to recover fertility. Guaranteed Analysis.

	"B" Pct.	"C" Pct.
Ammonia	2	3
Phosphoric Acid	12.14	11.22
Potash	3	4.50

Prices: 50-lb. sacks \$1.25; 100-lb. sacks \$2.25; 500 lbs. \$10.50. NOTE.—"C" is 10c per 100 higher.

SPECIAL FERTILIZER FOR HOPS—"A" or "E"—

We furnish two brands of Fertilizer for Hops, one with a very high percentage of potash and the other with a very small percentage of potash, phosphoric acid being the same in both. Hops are known to be great feeders on phosphoric acid from the land. The average hop crop removes seventy-five pounds per acre from the soil. This has to be replaced. For hops on clay soil and soil containing considerable potash, we recommend BEAVER BRAND "A" SPECIAL Hop Fertilizer, but for hops on all other lands we recommend BEAVER BRAND "E" Fertilizer.

Guaranteed Analysis. "A" Special, Pct. "E," Pct.

Ammonia	.....	4	3.04
Phosphoric Acid	.....	11.05	11.05
Potash	.....	2	12

Prices, "A" Special: 50-lb. sacks \$1.25; 100-lb. sacks \$2.25; 500 lbs. \$10.00. Price of "E": 25c per 100 more. Low prices by the ton.

SPECIAL ONION FERTILIZER—"E."—Onions are great users of phosphoric acid and potash, using more potash per acre than the average hop crop and as much as a potato crop. On account of intensive farming of onions, the supply of phosphoric acid and potash is very quickly decreased. To hold up your quantity and quality of crops you must feed them more plant food. We recommend

BEAVER BRAND "E" Fertilizer. Guaranteed analysis: Ammonia, 3.04 per cent; phosphoric acid, 10.05 per cent; potash, 12 per cent. Prices: 50-lb. sacks \$1.50; 100-lb. sacks \$2.50; 500 lbs. \$11.00. Low price by the ton.

TANKAGE.—"Beaver Brand" Dried and Ground.—This is a very highly concentrated tankage, analyzing 10 per cent ammonia and around 20 per cent calcium phosphate. Low price by the ton. Prices: 100-lb. sacks \$2.50; 500 lbs. \$12.00

DRIED GROUND BLOOD—"Beaver Brand."—This is an A No. 1 product and contains a very low percentage of moisture and highest possible percentage of nitrogenous material. Guaranteed analysis, ammonia 16½ per cent. Prices: Lb. 10c; 5 lbs. 35c; 10-lb. sacks 60c; 50-lb. sacks \$2.20; 100-lb. sacks \$3.75.

La Center, Wash., June 17, 1913.
Routledge Seed & Floral Co.

Gentlemen: I want to send you a few lines to tell you about your seed that I got from you this spring. They all came up and are doing fine. The Cabbage was the best I have had for years and also the trees we got are doing fine, so I'm very much pleased with all I got from you.

MRS. WM. ECKERT.

Most of the above fertilizers should be used at the rate of 500 lbs. or more per acre. It will pay, and pay well. Send for our fertilizer booklet.

"WONDER ODORLESS FERTILIZER."

The best fertilizer for the city gardner; clean and odorless. Remember, it's all fertilizer; a wonder in action, a giant in strength, and the small amount necessary to use makes it the cheapest and most efficient High Grade Fertilizer on the market, and last but not least, IT IS ODORLESS.



"Wonder Trade Mark"

In "WONDER" you get the latest scientific discovery in plant food, something which gives results, something that astonishes. This "WONDER" fertilizer is the result of years of study and trials by a fertilizer expert, in fact, he is the same person that sold us "Wilgrow" five years ago. Wilgrow in its original form was an excellent fertilizer and we sold tons and tons of it. The objection was the odor. In "WONDER" we have a meritorious and odorless concentrated fertilizer, put up in small packages, thereby making its distribution a cheap and easy matter. Being a concentrated fertilizer, only a very small amount is required to produce the largest yield. (See general directions below.) There's no use of your paying dray and freight charges on bulky fertilizers containing three-fourths sand, ash or dirt filler. "WONDER" is the pure "dope"—clean and easy to apply. We guarantee it to give results.

The small amount of "WONDER" required reduces the expense of fertilizing to about one-half the cost of manure or the average commercial fertilizers on the market.

The "WONDER" Fertilizer is sold only in 25-lb. white, clean canvas bags and 2-lb. odorless cartons.

General Directions For Use

One 25-lb. bag is equal to 100 lbs. of the ordinary commercial fertilizer.

One 25-lb. bag of "WONDER" will go over a space of your lawn 30x40 or 1200 square feet, and is sufficient for same, applied once yearly.

One 25-lb. bag of "WONDER" will care for six 6-year-old full-bearing fruit trees applied once yearly.

One tablespoonful will be sufficient for an ordinary rosebush, giving you beautiful colored flowers and a healthy plant.

One tablespoonful will be sufficient for a melon, potato or tomato vine.

A small teaspoonful of "WONDER" is sufficient for a 6-in. potted plant, palm or fern, and there will be no odor to scent the house.

Use "WONDER" Fertilizer on all flower and vegetable plants, berry bushes and vines, shrubs and roses, grains, grasses, hops, etc., and remember it takes only one-fourth as much "WONDER" as it

does of the bulky commercial fertilizers generally used.

Ask for "WONDER" 20-page booklet that gives plain facts and full information and directions for all purposes. FREE.

PRICE OF "WONDER": 2-lb. packages 25c; 25-lbs., Drill Bags, \$1.75, OR DELIVERED anywhere in Portland or to any Depot or Boat for \$2.00.

Other Fertilizers.

Write for Ton Prices.

PURE PULVERIZED SHEEP MANURE.—A pure, natural and nutritious manure. Immediate and lasting in effect. Excellent for mixing with the soil for greenhouse plants or flower beds. In the vegetable garden it promotes a rapid, steady growth until maturity. It makes a rich liquid manure.

Quantity Required.—For garden and field crops, 1 to 2 tons per acre— $\frac{1}{2}$ before plowing, the balance before harrowing. For top-dressing grass, use 1 ton per acre, applied in fall or early spring.
Price: 10 lbs. 25c; 50 lbs. \$1.25; 100-lb. bag \$1.75; low price per ton.

HIGH-GRADE BONE MEAL.—This is a special brand we have put up for our trade. It is ground fine, hence acts quickly. Free from acid and a superb article. It is made from bone accumulated in large slaughter-houses, and should not be compared with the Bone Meal made from cattle heads and feet gathered upon the Western prairies.

Quantity Required.—For permanent pasture and mowing lands one-half to one ton per acre; for trees and vines, 2 to 4 quarts each; for plants and rose beds, 10 pounds to 100 square feet; for starting a new lawn, as a base, 3 to 5 pounds per 100 square feet.
Price: 5 lbs. 30c; 10 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.00.

LAND PLASTER.—Used largely on grass and clover crops. Not sold in less than 100-lb. sacks. City delivering extra.
Price: 100 lbs. \$1.00; 500 lbs. \$4.00; 1000 lbs. \$7.50; ton \$14.00.

MURIATE OF POTASH.—One of the best orchard fertilizers known, and used largely for fruit stocks.
Price: lb. 10c; 10 lbs. 50c; 50 lbs. \$2.00; 100 lbs. \$3.25; original sacks, 224 lbs., \$6.50.

SULPHATE OF POTASH.—A desirable form of pot ash, especially valuable for potatoes and any root crops, such as beets, turnips, etc., also cabbage, etc. Use 50 to 400 lbs. per acre.
Price: lb. 10c; 10 lbs. 50c; 50 lbs. \$2.25; 100 lbs. \$3.50; 224-lb. sacks \$7.25.

NITRATE OF SODA.—A fertilizer for all crops. It is very quick in action, and hastens maturity of crops fully two weeks. Being quickly soluble, it should not be applied until the plants are above ground. Use 100 to 200 pounds per acre as a top dressing on vegetables, such as celery, tomatoes, cucumbers, lettuce, etc.
Price: lb. 10c; 5 lbs. 40c; 25 lbs. \$1.25; 100 lbs. \$3.50.

SUPERPHOSPHATE.—This is a concentrated form of phosphoric acid, and it is actually the cheapest form in which to buy phosphoric acid.
Price: Per lb. 10c; 5 lbs. 40c; 50 lbs. \$1.25; 100 lbs. \$2.00.

You must feed your plants and trees if you want to get the best and most profitable crops.



FLOWER SEEDS

Our flower seeds are grown by specialists and are unsurpassed. The following list contains a general assortment of the choicest and most popular and easiest grown flowers for conservatory, greenhouse or garden culture.

CULTURAL DIRECTIONS.

Cultural directions are printed on the back of nearly all packets.

Flowers usually succeed best in a sandy loam, made rich with well-rotted manure, which should be made fine and thoroughly mixed with the soil. A soil thus prepared will remain moist and loose, so that flower seeds, which are generally small and delicate, will germinate and grow with vigor.

At any time we will cheerfully supply any information as far as we are able pertaining to gardening or floriculture, and solicit correspondence from our customers.

Annuals grow from seed, flower, mature their seed, and die in one year, or, in other words, the same season.

Half-Hardy Annuals are those which should be started early in the house, conservatory or hotbed, and transplanted to the garden in settled warm weather. Hardy Annuals are those which can be sown in the open ground.

NOTE.—Half Hardy Annuals and H. H. Perennials

Biennials grow from seed, sown from June to August, flower, ripen their seed and die the next year, though some varieties bloom the same season if sown early in gentle heat.

Hardy Biennials will winter in the open ground without protection.

Half-Hardy Biennials require the protection of a cold-frame or coolhouse during winter.

Perennials grow from seed, and continue flowering annually for many years after the first season. Some varieties flower the first season if planted early in gentle heat.

Hardy Perennials can remain in the open ground during winter without protection.

Half-Hardy Perennials require the protection of a coldframe or coolhouse during winter.

Tender or Greenhouse Perennials require window or greenhouse culture, free from frost during winter, and thrive in the garden during the warm months. are hardy in the Willamette Valley.

ACROCLINIUM

Hardy annual, with everlasting flowers; good for cutting; flowers double white, 1 foot; July to October. Album, Fl. Pl. or Mixed. Pkt. 50

AGERATUM

Half-hardy annuals, especially well adapted to edge large beds of geraniums, salvia, coleus, or cannas; flower continuously through the summer.

Mexicanum.—Dwarf, blue. Pkt. 50; 1/4-oz. 25c

Album.—Pure white, dwarf. Pkt. 50

Finest Mixed. Pkt. 50

Dwarf Little Blue Star.—New; one of the handsomest blue-flowered dwarf edging plants; grows 5 inches high, and is just covered with small, bright blue flowers. Pkt. 15c

AGROSTEMMA

Coccinea (Rose of Heaven).—Superb free-flowering, hardy annual, rose-colored flowers; fine for cutting; height 1 1/2 feet; July to September. Pkt. 50



Aquilegia, Rose Queen.

ALOYSIA—Lemon Verbena

Citriodora.—A greenhouse shrub, valuable for the fragrance of the foliage; 2 feet. Pkt. 10c

ALYSSUM

One of the most popular hardy annuals, used especially for edging and also valuable for cutting on account of the fragrance of flowers.

Sweet.—Pure white; 6 inches; June to November. Pkt. 50; oz. 35c

Little Gem.—The dwarfest and best for design bedding; plants very compact and bushy, and grow only 3 inches high. Pkt. 10c; oz. 50c

Saxatile Compactum (Gold Dust).—Hardy perennial; yellow flowers; April to June; height 9 inches. Pkt. 10c; 1/4-oz. 20c

AMARANTHUS

Caudatus (Love-Lies-Bleeding).—Hardy annual. Ornamental foliage plant; fine for bedding; green foliage with long, drooping crimson racemes; 2 feet. Pkt. 5c

Cruentus (Prince's Feather).—Dark red foliage and feathery flowers; 2 feet. Pkt. 5c

Tricolor (Joseph's Coat).—Ornamental, for foliage only. Red, yellow and green. Pkt. 25c

ANTIRRHINUM—Snapdragon

Half-hardy perennial and annual. Blooms in July if sown early in the house. One of our finest cut flowers.

Queen Victoria.—New, tall; very large, pure white; superb. Pkt. 10c; 1/4-oz. 50c

Aurora.—New; semi-dwarf; cinnabar scarlet, white throat. Pkt. 15c

Tall Giant, Finest Mixed.—Our seed of this exceptional fine quality comes from a specialist in England, and is without doubt the choicest strain. Pkt. 5c; 1/4-oz. 25c

Dwarf, Finest Mixed. Pkt. 5c; 1/4-oz. 30c

AQUILEGIA—Columbine

Hardy perennials. Are most elegant plants and invaluable for cut flowers; moist situations; plenty of sun. Used in rockeries. (See cut.)

Benary's Long Spurred.—Superb mixture of all the most desirable shades. Pkt. 15c; 1/4-oz. 50c

Rose Queen.—Beautiful rose color, with white center, yellow anthers. New. Pkt. 20c

Single Finest Mixed. Pkt. 5c; 1/4-oz. 20c

Double Finest Mixed. Pkt. 5c; 1/4-oz. 20c

ARABIS—Rock Cress

Alpina.—Hardy perennial pure white flowers in close head; excellent for edging, rockwork or dry situations; 6 inches; April to June. Pkt. 10c; $\frac{1}{4}$ -oz. 25c

ASPARAGUS

Plumosus Nanus.—A graceful pot plant for either house or conservatory; very finely cut foliage. Pkt. 25c; 100 seeds \$1.00
Sprengeri.—Drooping foliage; adapted for hanging baskets or cutting. Pkt. 10c; 100 seeds 50c

ASTERS

We take the utmost pains to select seeds from the most perfect flowers only, and wish to assure our patrons that our strains are the superiority of perfection.

IMPROVED GIANT CREGO.

The most beautiful and desirable aster we have ever seen. Very hardy free-flowering and one of the best for general planting. The plant is a strong, healthy grower, and will produce 12 to 15 long stemmed flowers of the most graceful and pleasing style (see cut). With ordinary care you can grow flowers measuring 5 to 6 inches across. We won first prize at Salem State Fair, 1912, with crego asters. Pure White, Shell Pink, Rose Pink, Purple or Mixed. Pkt. 10c; $\frac{1}{4}$ -oz. 75c

NEW GIANT COMET.

Considered by many to be the most beautiful of all the Asters (see cut). It is an ideal cutting variety, as each plant bears a number of exquisitely formed large flowers on long, stiff stems.

Fine Mixed. Pkt. 10c; $\frac{1}{4}$ -oz. \$1.00
 Pure White, Pink, Crimson, Violet or The Bride.—New and lovely shade; white passing to rose. ... Pkt. 15c; $\frac{1}{4}$ -oz. \$1.25

ASTER PLANTS

And all popular annual bedding plants supplied in season. See pages 9 to 11.



Improved Giant Crego Aster.

QUEEN OF THE MARKET.—Most valuable for early cutting. The plants branch freely, and produce a great many well-formed flowers nearly a month in advance of the later sorts.

White, Pink, Lavender or Finest Mixed, Pkt. 10c; $\frac{1}{4}$ -oz. 40c

Benary's New Yellow.—A new color, pale yellow, said to come true. A branching variety, producing freely large double flowers of fine shape.

Pkt. 15c

LADY ROOSEVELT.—A new giant late-flowering, long-stemmed chrysanthemum aster. It has heavy incurving petals; flowers very large and gorgeous pink. Excellent seller as a cut flower; good until frosts.

Pkt. 15c; $\frac{1}{4}$ -oz. \$1.00

SUPERB LATE BRANCHING.

The most popular late-flowering aster. Flowers are very large in size and borne on long, stiff stems, 2 to $2\frac{1}{2}$ feet high, which, together with the ideal form of the bloom, at once places them at the head of our September flowers. The petals are long, giving a chrysanthemum-like appearance to the flower, which greatly enhances its beauty.

Crimson, Dark Blue, Light Blue, Rose, Pink, White or Finest Mixed.

Pkt. 10c; $\frac{1}{4}$ -oz. 60c

BABY'S BREATH.—See Gypsophila, page 54.

BACHELOR'S BUTTONS.—See Centaurea Cyanus, page 51.

BALLOON VINE

Annual climber; flowers white; seed vessels like small balloons; pretty foliage; grows rapidly; height 8 feet.

Pkt. 5c; $\frac{1}{4}$ -oz. 15c

USE "WONDER"

The best Fertilizer known
 —A teaspoonful to a plant does wonders. See pg. 47.

Aster—New Giant Comet.

BALSAM

Hardy annual, succeeding best in sunny situations, rich loam and moisture. Very showy and of easy culture; 1½ feet. July to September.

Prize Mixture.—This strain will produce the most perfectly formed double flowers in the greatest variety of colors. Pkt. 5c; ¼-oz. 25c

Improved Camelia-Flowered.—Large, extra double flowers. Finest Mixed, Pkt. 5c; ¼-oz. 25c

BEAN

Scarlet Runner.—The well-known, rapid-growing annual climber, with bright red flowers, from July to September; height 8 feet.

Pkt. 10c; oz. 20c; ¼-lb. 50c

BELLIS—Double English Daisy

Popular spring flowering perennial; height 4 inches. April to September. Double Mixed, Pkt. 10c

Longfellow.—Large, red, long-stemmed flowers. Pkt. 10c

Snowball.—Pure white. Pkt. 10c

Giant Red.—Very rare. Pkt. 20c

BOCCONIA—Plumed Poppy

Hardy perennial; large heart-shaped, glaucous, deep-veined foliage; immense panicles of creamy flowers; July to September; 6 to 8 feet.

Japonica, or Cordata. Pkt. 5o; ¼-oz. 25c

BROWALLIA

A very profuse blooming, half-hardy annual bedding plant, bearing during summer and autumn handsome winged flowers of different shades of blue; 1½ feet. Finest Mixed, Pkt. 5c

CALCEOLARIA

An ornamental plant, and a universal favorite for decorating the greenhouse, or conservatory; produces a mass of beautiful pocket-like flowers of brilliant, self-colors and spotted. Our strains of Calceolaria are very fine.

Hybrida Grandiflora.—Flowers of immense size; seeds saved from finest specimens. Pkt. 25c

Rugosa Major (Perennial Hybrid).—Fine mixed; somewhat larger than preceding; excellent. Pkt. 25c

CALENDULA—Pot Marigold

Hardy annual; one of the most universal garden flowers. This is the Marigold of Shakespeare's time. The flowers appear in solitary heads on stout stalks; large, with flat spreading rays; very showy; flowers the entire season; 1 foot.

Double Finest Mixed, Pkt. 5o; ¼-oz. 20c

CALLIOPSIS

Showy and beautiful free-flowering annuals, of the easiest culture, doing well in any sunny position, blooming all summer and excellent for cutting and massing. It is best to sow them where they are to bloom, thinning out to stand 6 inches to 12 inches apart.

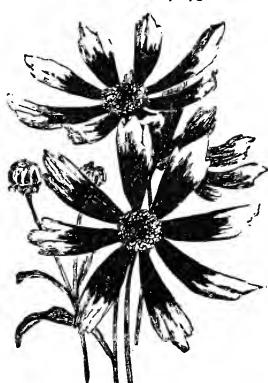
Fine Tall Mixed.—Annual; all shades of yellow, red and brown. Pkt. 5c; ¼-oz. 20c

Hybrida Superba.—Showy new shades. Pkt. 10e; ¼-oz. 20c

Golden Ray (Radiata).

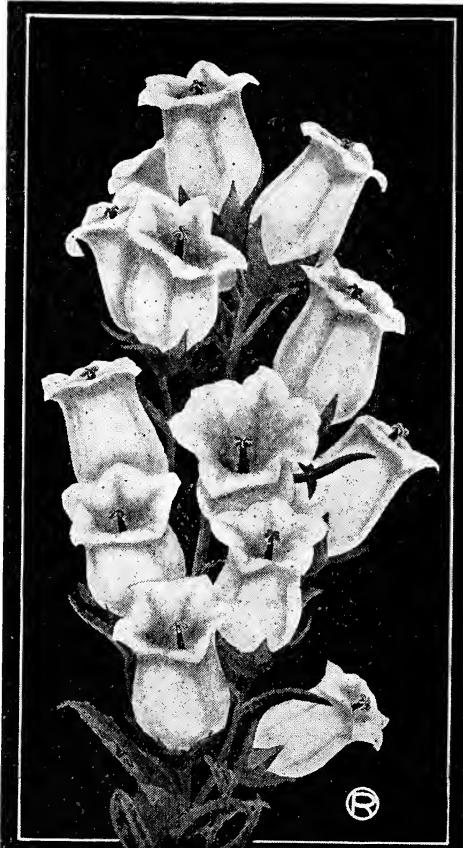
—This new calliopsis is one of the most beautiful and free flowering. From out of the dark brown center the leaflets shade into bright golden yellow rays, thus giving each flower an elegant and striking appearance. Bushes compact and about 10 inches high.

Pkt. 15c



Calliopsis—Golden Ray.

We sell strong field grown plants that will produce a profusion of flowers first season. (See pp. 9 to 16.)



Campanula Medium (Canterbury Bells, p. 50)

CALLIRHOE—Poppy Mallow

Hardy perennial; beautiful trailing plant, with paler foliage; flowers large, crimson, with white center; fine for rockwork; 1 foot; June to October. Involverata.

Pkt. 5c; ¼-oz. 25c

CAMPANULA—Bellflower

Well-known, beautiful, hardy herbaceous perennials, bearing a great profusion of attractive bellflowers; thrives best in light, rich soil; some of the varieties flower the first season if sown early.

Persicifolia Grandiflora (Peach Bells).—Undoubtedly one of the finest of the hardy Bellflowers; grows 2 to 3 feet high, with large flowers.

Blue, White or Mixed, Pkt. 10c; ¼-oz. 50c

Persicifolia Gigantea Moerheimi.—A beautiful, new variety; 2 feet high. In June and July bears spikes of large, double pure-white, carnation-like flowers; fine for decorating.

Pkt. 15c; 1-16 oz. \$1.00

Pyramidalis (Chimney Bellflower).—Stately, hardy perennial, either for garden or pot culture; 3 feet.

Blue or White, Pkt. 5c; ¼-oz. 20c

Carpatica (Carpathian Hare-Bell).—Free-flowering, hardy perennial, continuing in bloom the whole season; color clear blue or white; grows 6 inches high; especially good for edging.

Blue or White, Pkt. 5o; ¼-oz. 20c

Canterbury Bells.—(See next page.)

Perennial Flowers are rapidly gaining in favor. MORE should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. Pgs. 12 to 16.

CANTERBURY BELLS (Campanula Medium)

Very ornamental garden plants of easiest culture; excellent for cutting; hardy biennial; 2½ feet high, producing large bell-shaped flowers of exquisite colors. See *Campanula* (*Bellflower*) page 49 for perennial class.

Single Finest Mixed, all colors. Pkt. 5c; ¼-oz. 15c

Double Blue, White, Lilac, Rosy Carmine or Mixed. Double Blue, White, Rosy Carmine or Mixed.

R. R.'s Prize Mixture.—Biennial; a perfect strain, which contains every color of both single and double flowers (including *Calycanthema*). Pkt. 10c

Calycanthema (Cup and Saucer Canterbury Bells). This is unquestionably one of the finest types. They have an extra large calyx, which is of the same color as the flower, giving the appearance of a cup and saucer. Pink, Lilac, Rose, White or Mixed. Pkt. 15c; 2 for 25c

CANARY CREEPER

A rapid-growing summer-climbing annual, 10 to 15 feet high. It will cover trellis work in the most graceful manner, producing hundreds of pretty fringed, bright yellow flowers. Pkt. 5c; ¼-oz. 20c

CANNA

Stately plants, with massive, rich and handsome foliage; flowers superb, splendid yellow, rich orange, deep carmine, flaming scarlet; others beautifully spotted and marked. (For *Canna* Roots see index of Bulb Dept.)

Crozy's Hybrids Mixed. Pkt. 5c; oz. 35c

CANDYTUFT—Iberis

Showy, branching plants, much grown in masses in beds or for edging; also grown extensively for cut flowers; of easy cultivation, they succeed in any rich garden soil.

Finest Mixed. Pkt. 5c; ¼-oz. 20c
Crimson. Pkt. 5c; ¼-oz. 15c

Empress.—A large-flowered variety of purest white; grown extensively for cut flowers; heads broad. Pkt. 5c; ¼-oz. 20c

PINK BEAUTY (Novelty).—Fine, true pink; an exquisite flower. Pkt. 15c

Dwarf White Little Prince.—Grows but 6 inches high and throws up strong trusses of pure white flowers; excellent for edging or bordering. Pkt. 10c; ¼-oz. 50c

Sempervirens.—Perennial; pure white flowers, evergreen foliage. Pkt. 10c; 1-16 oz. 35c

CARNATION

Everyone loves Carnations. For started plants of the finest varieties see pages 9-15.

Chabaud.—Fall and winter blooming of finest quality. Used mostly by florists. Double flowers. Pkt. 25c

Margaret Carnations.—The earliest to bloom, and producing large, double, sweet-scented flowers. Being half-hardy perennials, if they are slightly protected during the winter they will flower profusely the next summer.

Benary's Giant.—Extra large flowering and of the most beautiful colors. Pkt. 15c

Red, White or Yellow.—Large flowers. Pkt. 15c
Choice Mixed. Pkt. 10c; ¼-oz. 50c

CELOSIA CRISTATA—Cockscomb

Showy annuals of easy cultivation; 1 foot. Producing large, brilliant, comb-like flower heads.

Glasgow Prize.—Showy, dark crimson combs. Pkt. 10c; ¼-oz. 35c

Finest Mixed.—Rich mixture. Pkt. 5c; ¼-oz. 20c

CELOSIA PLUMOSA—Feathered Cockscomb

The plant grows 2 to 3 feet, is of handsome pyramidal form, and the numerous massive plumes, which resemble an ostrich feather waving gracefully above the foliage, make it one of the most effective ornamental plants for either pot or outdoor planting. It is of easy culture.

Thompson Magnifica.—The most perfect strain of the ostrich plumed Cockscombs. The flower spikes vary in the most magnificent shades of colors, ranging from the clearest yellow to the darkest of blood red. In constant bloom from July to November.

Should be planted in every garden, large or small. Finest Mixture. Pkt. 10c; ¼-oz. 25c

Thompson Golden Yellow.—True color. Pkt. 10c

Thompson Crimson.—True color. Pkt. 15c

CENTAUREA—Dusty Miller

These are grown for foliage only, and make excellent plants for edgings. They are hardy annuals and grow rapidly. The leaves are silver-coated.

Candidissima.—Thick white leaves; 1 foot. Pkt. 10c
Gymnocarpa.—Fine, fern-like leaves, very graceful and showy; 1 foot. Pkt. 10c

CENTAUREA CYANUS

(Bachelor's Button, Cornflower, Blue Bottle or Ragged Sailor.)—This is one of the most popular annuals; will grow in the poorest of soil, either on seashore or mountains. Seed can be sown either in fall or spring. Sandy soil preferable. Height 2½ feet. Finest Mixed, Pkt. 5c; oz. 35c

Centaurea Cyanus fl. pl. (Double Bachelor's Button).—Mixed. Pkt. 10c; ¼-oz. 25c

Centaurea Imperialis (Giant Cornflower).—The flowers are of enormous size, fragrant and of charming colors. Excellent for cutting. Finest Mixed, Pkt. 10c; ¼-oz. 25c

Odorata Marguerite.—Flowers 4 inches across; purest white; very fragrant; July to September. Excellent for cutting. Pkt. 10c; ¼-oz. 40c

Odorata Finest Mixed.—All colors. Pkt. 5c; ¼-oz. 40c

Centaurea Moschatus (Sweet Sultan).—Hardy annual, with very fragrant and showy flowers; 1½ feet; June to September. Finest Mixed, Pkt. 5c; ¼-oz. 25c

Perennial Varieties

Centaurea Babylonica.—Pure yellow, grand flower; 3 feet; June to September. Pkt. 10c; ¼-oz. 35c

Centaurea Montana (Cornflower of Armenia).—Large, feathery flowers; height 2 feet; July and August. Blue or White, Pkt. 10c; ¼-oz. 25c

CHRYSANTHEMUM

These are very showy flowers of easiest cultivation, flowering from July to frost. Excellent for cutting. Height 2 feet. (For plants see pp. 9 to 15.)

Single Annual, Finest Mixed. Pkt. 5c; ¼-oz. 25c

Double Annual, Finest Mixed. Pkt. 5c; ¼-oz. 20c

Japanese Early Flowering (Double Flowering).—These flower in the open ground from August to November. Splendid plants for show effect. Height 3 feet. Pkt. 15c

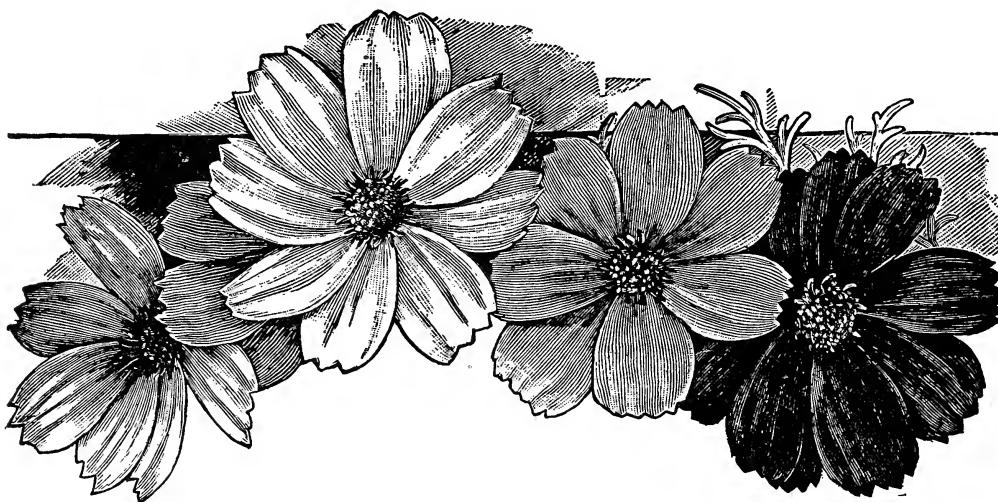
CINERARIA

One of the most gorgeous colored flowering plants for either greenhouse or conservatory. Seeds should be sown in July, but may also be sown in August or September.

Hybrida Grandiflora.—We pride ourselves in offering the choicest strain of this gorgeous flower. Grand, large blooms in umbel spikes are borne way above the foliage; colors and markings are superb; 1½ feet. Pkt. 35c



Shasta Daisy. (See page 52.)



Cosmos, Early Flowering.

CLARKIA

A mighty handsome annual, which should be far more widely known. It is of easy cultivation, graceful in habit of growth, and lends itself as well to bedding as for cutting. The flowers are borne all along the stems and resemble carnations to quite an extent; 1 foot; July to October.

Elegans.—Double mixed.

Pkt. 50

COSMOS

Among the garden annuals that have come into prominence in recent years, the Cosmos has a most brilliant future. It is a show in the garden and magnificent when cut. Formerly we had to be content with the late-flowering type, which was often killed by early frost. Now that we have a most perfect type of the early flowering class, every garden should contain this exquisite flower. (See cut.)

Benary's Early Flowering.—If sown out-of-doors in May, flowers can be picked early in July. The plants grow but 4 feet high, and do not require staking, like the late-flowering varieties. Flowers large and beautiful.

Early Flowering, White, Pink or Mixed.

Pkt. 10c; $\frac{1}{4}$ -oz. 25c

Klondyke.—Golden yellow, flowers large and borne on long stems. Medium early.

Pkt. 10c

Mammoth, Mixed.—Flowers often 4 inches across; plants 7 feet high. Blooms do not appear until October, when other flowers are scarce.

Mixed, Pkt. 5c; $\frac{1}{4}$ -oz. 15c

COREOPSIS

Lanceolata Grandiflora.—Hardy perennial. This is one of the finest of hardy plants, with large, showy, bright yellow flowers, produced in the greatest abundance from June till frost. As a cut flower they stand near the head among hardy plants, having long stems and lasting in good condition a week or more. Easily grown from seed, flowering the first year, if sown early.

Pkt. 10c; $\frac{1}{4}$ -oz. 35c

Grandiflora.—Very similar to above except this variety has glabrous leaves; 2 feet; all summer.

Pkt. 10c; $\frac{1}{4}$ -oz. 25c

COBAEA SCANDENS

Popular climbing perennial, flowering the first season. Large, purple, bell-shaped flowers appear in great profusion during the fall months. Foliage very graceful; 20 feet.

Pkt. 10c; $\frac{1}{4}$ -oz. 25c

COLEUS

Splendid bedding plants, with beautifully colored foliage; easily grown from seed if kept in warm temperature; tender perennial.

Benary's Exhibition.—Superb.

Pkt. 25c

CONVOLVULUS MINOR—(See Morning Glory, p. 56.)

CORNFLOWER—(See Centaurea Montana, page 51.)

A hedge of Free Flowering Dahlias is as beautiful and more showy than a hedge of Roses. They are in full bloom when other flowers are scarce. See pgs. 66 to 72.

CYCLAMEN

Beautiful plants for the window or greenhouse, with mottled leaves and rich-colored flowers. Both the strains offered below have gained a reputation for their large size, perfect form and brilliant colors.

Giganteum.—Finest mixed. Pkt. 35c

Papilio (Butterfly).—The edges of the flowers are beautifully fringed or waved; mixed colors.

Pkt. 25c

CYPRESS VINE

Finest Mixed.—A fast-growing annual vine, with feathery, dark green foliage and star-like flowers; July to October; 20 feet. Pkt. 5c; $\frac{1}{2}$ oz. 15c

DAHLIA

This very popular flower can easily be raised from seed; in fact, it is surprising how many new varieties are yearly introduced from seedlings. Seed sown in March will produce flowers in August.

Cactus-Flowered, Double Mixed. Pkt. 20c

Double Show, Finest Mixed. Pkt. 10c

Single Giant Perfection.—Flowers are gigantic and exquisitely colored; 4 feet. Pkt. 10c

DAHLIA BULBS.—Latest and best, see pp. 66-72.

DAISIES

Burbank's Shasta.—Very popular and desirable perennial; the larger, single white flowers are freely produced on long stems. We offer you the best strain in plants or seed. (See cut, page 50.) Pkt. 15c

Double Daisies.—(See Bellis, page 51.)

New Orange Daisy.—(See Dimorphotheca.)

DELPHINUM.—(See next page.)

DIANTHUS—Garden Pink

All the varieties listed below are very desirable, and will flower the first season even sown out of doors in May. They flower early and continue throughout the entire summer. They are excellent for cutting, as well as bedding. Height 1 foot.

Chinensis f. pl.—(Chinese Pink.) Large double flowers in unlimited variety of colors.

Finest Mixed, Pkt. 5c; $\frac{1}{2}$ -oz. 20c

Hedgewigii f. pl.—(Japanese Pink.)

Finest Mixed, Pkt. 5c; $\frac{1}{2}$ -oz. 25c

Fireball.—New, extra double, brilliant, dark scarlet; very beautiful.

Pkt. 10c; $\frac{1}{2}$ -oz. 50c

Snowdrift (Lancineatus).—Extra large, pure white, double.

Pkt. 15c; 1-16 oz. 50c

Benary's Prize Mixture.—Very rich.

Pkt. 5c; $\frac{1}{2}$ -oz. 25c

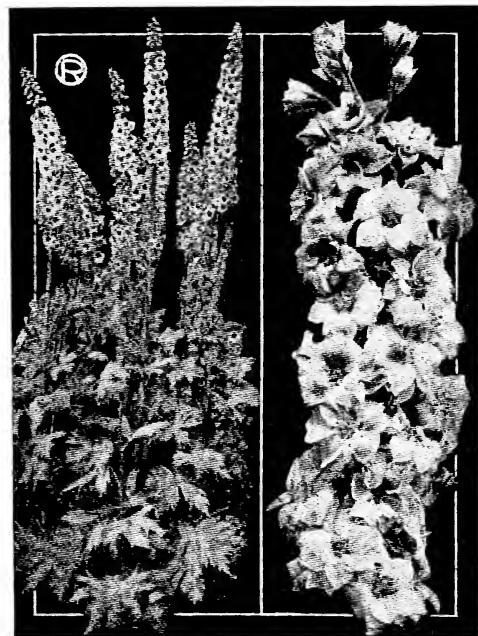
Semperflorens (Perennial Hardy Garden Pinks).—Very beautiful, sweet-scented, double, semi-double and single flowers in great diversity of colors.

Pkt. 10c; $\frac{1}{2}$ -oz. 25c

DIMORPHOTHECA AURANTIACA

This new single African "Golden Orange" Daisy is rare and showy; easily grown from seed and very free-flowering all summer; 12 to 15 inches high.

Pkt. 5c;



Delphinium Plant and Flower Spike.

DELPHINUM—Perennial Larkspur.

Handsome, hardy perennial plants for the herbaceous border and shrubbery, producing a profusion of splendid spikes of flowers throughout the summer; will usually bloom the first season. (For large plants see page 14.)

Cashmerianum.—Large, dark blue flowers; hooded form. Pkt. 15c; $\frac{1}{4}$ -oz. 25c

Chinese Azureum.—This variety branches very freely and produces its flowers on single stems, in greatest abundance. Clear, deep blue. July to October. Height, 3 feet. Pkt. 5c; $\frac{1}{4}$ -oz. 15c

Cardinale.—Scarlet; 3 feet. Pkt. 15c

Formosum.—Long-spurred, brilliant blue flowers, with white eye; 4 feet; July to October. Pkt. 5c; $\frac{1}{4}$ -oz. 15c

Elatum Hybridum.—Superb collection of finest double varieties. Pkt. 10c; $\frac{1}{4}$ -oz. 25c

DIGITALIS—Foxglove

Hardy perennials, very desirable for effective massing or grouping; invaluable either in the hardy border, between shrubs, or in solid beds. (See cut.) For strong flowering plants, see page 14.

Beauty Mixture.—Comprising all the choicest colors. Pkt. 5c; $\frac{1}{4}$ -oz. 25c

Gloxiniaeflora, Finest Mixed.—Flowers spotted similar to gloxinias. Pkt. 5c; $\frac{1}{4}$ -oz. 15c

Montrosa (Mammoth Foxglove).—The tall spikes are surmounted by one monstrous flower; all colors mixed. Pkt. 10c; $\frac{1}{4}$ -oz. 30c

DOLICHOS—Hyacinth Bean

Annual climbers, with hyacinth-like purple and white flowers, born in clusters; 10 feet; July to September. Mixed. Pkt. 5c

ECHINOCYSTIS LOBATA—

Wild Cucumber

The fastest growing annual vine in existence; will grow 20 feet in six weeks. Pretty foliage and inconspicuous white flowers. Soak seed in water 24 hours. Pkt. 5c; $\frac{1}{4}$ -oz. 20c

ESCHSCHOLTZIA—California Poppy

One of the most popular garden annuals. Seeds should be sown very early. It stands considerable cold and blooms after the first frosts. If well protected plants will live through the winter.

Finest Mixed.—All shades. Pkt. 5c; oz. 30c

Californica.—Bright yellow. Pkt. 5c; oz. 30c

Alba.—Pure white. Pkt. 5c; oz. 35c

Carmine.—A beautiful rose carmine. Pkt. 10c; oz. 60c

Golden West.—Very large, bright yellow flowers. Pkt. 10c; oz. 50c

FOUR O'CLOCK.—(See Marvel of Peru, page 55.)

FORGET-ME-NOT.—(See Myosotis, page 56.)

FOXGLOVE.—(See Digitalis, this page.)

GAILLARDIA—Blanket Flower

Splendid, showy plants for beds or borders; excellent for cutting; the hardy perennial varieties will also bloom the first season, if sown early. Field grown plants, page 14.

Grandiflora Superba.—Hardy perennial; splendid mixed varieties; 2 feet. Pkt. 10c; $\frac{1}{4}$ -oz. 20c

Grandiflora Semi-plena.—A superb mixture of hardy, perennial, semi-double kinds. Pkt. 10c

Picta Lorenziana.—Hardy annual; double mixed colors; 2 feet. Pkt. 5c; $\frac{1}{4}$ -oz. 30c

GERANIUM

Finest Mixed Hybrids.—A mixture of the leading varieties. Tender perennial; 18 inches; May to October. Strong plants, pages 9-10. Pkt. 25c

GLOXINIA

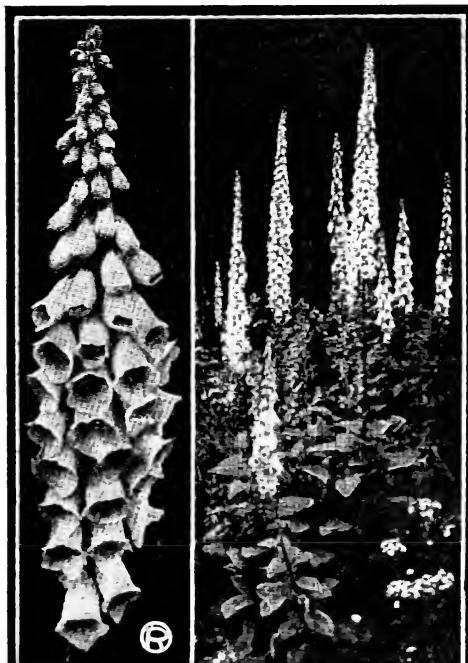
Showy, free-flowering plants for pot culture; producing magnificent flowers of the richest colors; 1 foot.

Hybrida Grandiflora.—The best strain in existence, embracing all the choicest self-colored, tigereed and spotted flowers. Pkt. 25c

GOMPHRENA—Globe Amaranth

A dwarf hardy annual, with pretty clover-like head of purple, white and red flowers; 12 inches. Flowers everlasting.

Finest Mixed. Pkt. 5c; $\frac{1}{4}$ -oz. 20c



Digitalis—Foxglove Plant and Flower Spike.

GODETIA—Satin Flower

Finest Mixed.—This showy, hardy annual deserves greater popularity. Mallow-like flowers, varying from white to all shades of pink and crimson. They grow rapidly, and flower profusely; of easy cultivation, both at seashore or mountain resorts; 1½ feet; July to October. Pkt. 5c

GOURDS

Ornamental.—Fast-growing annual vines; cucumber-like foliage; creamy white flowers and bearing gourds of the most interesting forms and colors.

Calabash.—The famous pipe gourd, dipper shaped. Pkt. 10c; oz. 50c

Finest Mixed.—Or any of the following shapes: Egg, Orange, Turk's Turban, Pear, or Spoon, your choice. Pkt. 5c; oz. 35c

GYNERIUM

Argenteum.—Hardy perennial. The famous pampas grass, with beautiful silvery plumes; 10 feet.

Pkt. 10c

GYPSOPHILA—Baby's Breath

Pretty free flowering, elegant plants, succeeding in any garden soil. Their misty white panicles of bloom are largely used for mixing with other cut flowers.

Elegans Alba.—Hardy annual, easily grown from seed; pure white, 2 feet; June. Pkt. 10c

Elegans Rosea.—Hardy annual; bright rose; 2 feet. Pkt. 10c

Paniculata.—Hardy perennial. One of the finest for cutting. Pure white flowers, very small and borne in large, delicate sprays. June to September; 3 feet. Pkt. 10c; ½-oz. 25c

For strong roots of G. Paniculata for immediate effect see pages 12-15.

Ropens.—Perennial. Plants dwarf about six inches; flowers white, fine for borders or rock work. Pkt. 10c; ½-oz. 25c

HELIOTROPE

Most pleasing, fragrant, tender perennial; popular as a garden bedding plant; also for cutting. Some of the best plants may be raised from seed very readily; 1½ feet; June to October.

Finest Mixed. Pkt. 5c



Queen Marguerite.—A new variety, which grows very compact and produces single heads of deep blue; extremely fragrant flowers, which often cover the entire plant. A grand novelty and well worth a trial. Pkt. 15c

Madame de Blonay.—White; fine for bouquets. Pkt. 15c

HESPERIS—Sweet Rocket

Hardy biennial. Showy terminal spikes of all colors; very popular and fragrant; will grow in any common soil; 2 to 3 feet; June to October.

Finest Mixed. Pkt. 5c

HELIANTHUS—Sunflower

Among the showiest of our garden plants.

Californicus fl. pl.—Very large, perfectly double yellow flowers; 5 feet; annual. Pkt. 5c; oz. 35c

Globosus Fistulosus.—Flowers immense, from 12 to 15 inches in diameter; globular and extremely double; the most effective of all annual sunflowers. Pkt. 5c; oz. 35c

Perennial Mixed.—A choice mixture of the best perennial varieties. Pkt. 10c

HIBISCUS

Africanus.—Hardy annual; yellow flowers, having a maroon center; 2 feet; July to October. Pkt. 5c

Seaside, Ore., May 10, 1913.

Routledge Seed & Floral Co.

Dear Sirs: I received my order of seed and am well pleased.

Yours respectfully,
A. B. HUFFMAN.

HOLLYHOCKS

One of the showiest of hardy garden plants; no grandmother's garden was complete without these stately flowers; excellent for planting among shrubbery or forming a background for other flowers; 6 to 7 feet. (See cut.)

Allegheny.—Semi-double; mammoth flowers, having the edges of the petals finely fringed and lacquered; will bloom the first year if sown early; choicest mixed colors. Pkt. 10c; ½-oz. 25c

Double German Ever-Blooming.—Will bloom the first year from seed, if sown early. Pkt. 5c; ¼-oz. 35c

New Annual Ever-Blooming.—This is one of the best introductions of late years. Seeds sown in the house in March will produce flowers in July on plants 4 feet high. The plants do not attain their perfection until their second year, when they grow 7 to 10 feet high, and flower continuously from June till frost.

Single Mixed, Pkt. 5c; Double Mixed, Pkt. 10c

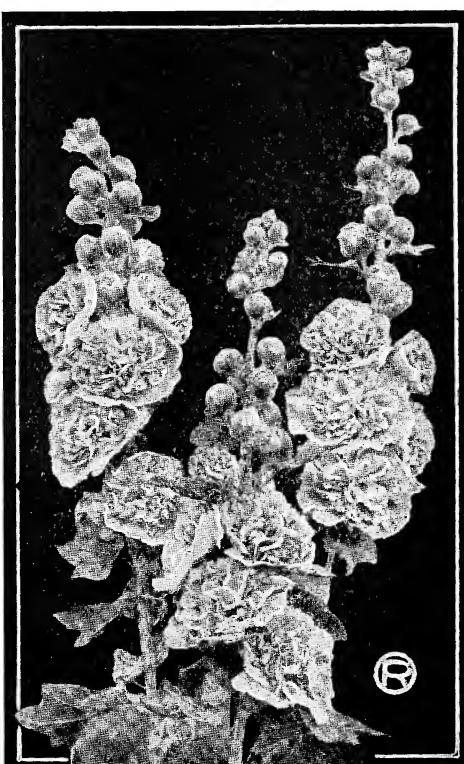
Chater's Improved.—Our strain of this is the best that can be produced; seeds saved from the most double flowers. White, pink, crimson, lilac or mixed. Pkt. 10c; ½-oz. 35c

HUMULUS (Japanese Hop)

Hardy annual climber. Of rapid growth. Fine for covering verandas and trellises, attaining a height of 12 feet.

Japonica Variegata.—Foliage green and white; very pretty and effective. Pkt. 10c; ¼-oz. 25c

COMMON HOP ROOTS.—Page 18.



Hollyhock—Chater's Improved.

HUNNEMANNIA

Fumariaefolia.—(Giant Yellow Tulip Poppy). Should be treated as an annual. Sow seeds out-of-doors in May and flowers will appear in August and flower continuously until frost. Foliage fern-like. Plants attain a height of 2 feet. Flowers are tulip-shaped, pure golden yellow. Very showy and when cut and put in water they will last a full week. One of the most valuable garden plants we know of.

Pkt. 10c; $\frac{1}{4}$ -oz. 25c

HYACINTH BEAN.—(See *Dolichos*, page 53.)

IPOMOEAE—Moonflower

Grandiflora Alba.—Large, heart-shaped leaves, and large, pure white flowers, which open only late in the evening; 10 feet.

Pkt. 10c

Ipomoea Purpurea.—(See Morning Glory, this page.)

LARKSPUR

These are splendid, hardy annuals, which, when sown in clumps in front of shrubbery, make a pleasing effect, and the slender flower stalks, when cut, are most desirable for vases; July to October.

Dwarf German Rocket Hyacinth Flowered.—A very compact growing bush, throwing up many splendid spikes of double flowers in all colors.

Mixed, Pkt. 5c; $\frac{1}{4}$ -oz. 20c

Giant Hyacinth Flowered.—Tall mixed; double.

Pkt. 5c; $\frac{1}{4}$ -oz. 20c

Emperor.—Tall spikes of exquisite double flowers in unlimited quantity; 3 feet.

Mixed, Pkt. 5c; $\frac{1}{4}$ -oz. 15c

PERENNIAL LARKSPUR.—(See *Delphinium*, p. 53.)

LATHYRUS LATIFOLIUS

Perennial Pea.—Free flowering, hardy perennial Climbers, bearing beautiful pea-shaped flowers.

White or Pink.

Pkt. 10c; $\frac{1}{4}$ -oz. 50c

Mixed.

Pkt. 5c; oz. 50c

LOBELIA

The following dwarf and trailing varieties of this popular and beautiful flowering plant will be found most desirable for pot culture, edgings or borders, hanging baskets, window boxes, etc. They bloom profusely from June to November. Delicate, graceful foliage and pretty star-like flowers.

Erinus Gracilis.—Trailing bright blue flowers; excellent for vases, hanging baskets and window boxes.

Pkt. 5c; $\frac{1}{4}$ -oz. 25c

Hybrida Sapphire.—New.—This is by far the most beautiful trailing Lobelia to date; very large, deep sapphire blue flowers with a large and clear white eye. Very free and early flowering; extra long trailer.

Pkt. 20c

Barnard's Perpetual.—Deep blue with white eye; very fine; trailing.

Pkt. 10c; 1-16 oz. 25c

Crystal Palace Compacta.—Little dwarf bedding plant. dark blue flowers cover the whole plant during the entire season; very compact and used extensively in carpet bedding or edging; height 4 inches.

Pkt. 10c; $\frac{1}{4}$ -oz. 50c

Compacta White Lady.—White flowers.

Pkt. 10c

Cardinalis (Cardinal Flower).—Hardy perennial; deep cardinal red flowers; thrives well in wet places. August and September; 3 feet.

Pkt. 15c

KUDZU VINE

Pueraria Thumbergiana.—Tender perennial climber from Japan, growing 30 to 50 feet in a single season.

Pkt. 10c

MARIGOLD—Tagetes

Widely grown, hardy annuals, invaluable for bedding and producing an elegant display of yellow, orange and brown flowers from early summer till frost.

Mammoth African, Finest Mixed.—Very large and double, in finest variety; 3 feet.

Pkt. 5c; $\frac{1}{4}$ -oz. 25c

Tall Double French, Finest Mixed, Pkt. 5c; $\frac{1}{4}$ -oz. 20c

Dwarf Double French, Finest Mixed.

Pkt. 5c; $\frac{1}{4}$ -oz. 15c

MESEMBRYANTHEMUM

Dwarf trailing plants of great beauty, blooming the whole summer, thriving best in a dry, loamy or sandy soil, requiring a warm, sunny situation; half hardy annuals; 8 inches.

Tricolor, Pkt. 5c

Crystallinum (Ice Plant).—Flowers white; prized for its singular icy foliage.

Pkt. 5c

~~~~~  
Free—25c extra  
with each \$1.00  
purchase in pkts.  
and ounces only.



Mignonette.

## MARVEL OF PERU—Four o'Clock

Old-fashioned, hardy annual. Flowering from July to October, in very brilliant colors; 8 feet.

Finest Mixed.

Pkt. 5c; oz. 15c

## MIGNONETTE—Reseda

A universal favorite; very fragrant; no home garden is complete without Mignonette. It needs a cool soil only moderately rich; grows 6 to 12 inches high and is treated as a half hardy annual. Sown from April to early in July. (See cut.)

*Grandiflora*.—Large-flowering; sweet. Pkt. 5c; oz. 15c  
*Defiance*.—Giant spikes; flowers abundant and very fragrant. Pkt. 10c;  $\frac{1}{4}$ -oz. 50c

*Machet*.—Excellent for pots; very select strain; red flowers. Pkt. 10c;  $\frac{1}{4}$ -oz. 25c

*White Pearl*.—New; the best white flower; very attractive. Pkt. 10c;  $\frac{1}{4}$ -oz. 75c



NEW MORNING GLORIES

See next page



Nasturtium—Trailing.

For permanent and hardy climbing flowering vines and trailers, see pg. 93.

### MIMULUS—Muskplant

*Moschatus*.—A tender trailing plant with small yellow flowers, giving forth a musk-like fragrance; 6 inches.

Pkt. 10c

### MORNING GLORY—Ipomoea Pururea

The tall varieties are popular, well known, rapid growing climbers of the easiest cultivation; very fine for covering arbors, trellises, porches, etc. The Minor or Dwarf varieties flower very freely and do not require support. (See cut, page 54.)

*Convolvulus Major*.—Tall, choice, single mixed; all colors.

Pkt. 5c; oz. 15c

*Convolvulus Minor*.—Dwarf mixed. Pkt. 5c; oz. 15c  
*Imperial Japanese Fringed*.—These have very large fringed flowers in a great variety of the most exquisite colorings; handsome, variegated foliage. Mixed.

Pkt. 10c; oz. 20c

*New Japanese Giant*.—Immense large flowers of beautiful shades. Pkt. 10c; oz. 25c

*Japanese Double Mixed*.—This double Japanese sort is very fine in leaf, flower and growth. Pkt. 15c  
*Choice Prize Mixture*.—This is a mixture of both American and Japanese varieties.

Large Pkt. 10c; oz. 20c

(Note.—Soak the Japanese Morning Glory seed in warm water for 24 hours before planting.)

### MYOSOTIS—Forget-Me-Not

Half hardy perennials, producing little blue, star-like flowers profusely in early spring. Flowers first season if started early.

*Finest Mixed*.—Six inches Pkt. 5c

*Diamantiflora*.—Rich blue; flowers very early; one of the best; six inches. Pkt. 10c; 1/2-oz. 35c

*Alpestris Victoria*.—Of bushy habit; bearing large double bright blue flowers; very fine; six inches. Pkt. 10c; 1/2-oz. 25c

*Alpestris Indigo Blue*.—New, very fine. Pkt. 5c; 1/2-oz. 20c

*Palustris Semperflorens*.—Perennial; splendid bright blue variety; blooms from early spring until autumn. Pkt. 10c 1/2-oz. 50c

### NIGELLA (Love in a Mist, or Devil in the Bush)

*Damascena*.—A compact, free flowering plant with finely cut foliage, curious looking flowers and seed pods; of easy culture, growing in any garden soil; hardy annuals; blue and white; one foot. Mixed, Pkt. 5c

*Miss Jekyll*.—A lovely variety with cornflower blue blossoms; splendid for cutting. Pkt. 10c

### NASTURTIUM

One of the best known and popular annual climbers. Flowers are borne in great profusion the whole season, lasting until frosty weather. The Nasturtium has been greatly improved in the past few years in size as well as in colors and markings. We offer only the finest strains, producing the largest and richest flowers.

#### Lobbianum, Tall or Climbing

*Asa Gray*.—Yellowish white; very fine.

*Black Prince*.—New; very dark.

*Crown Prince*.—Rich blood red.

*Golden Queen*.—Very fine yellow.

*Margaret*.—Yellow, spotted red and yellow.

*Primrose*.—Cream, brown spots.

*Regina*.—New salmon shade.

*Spitfire*.—Bright fiery scarlet; profuse bloomer.

Prices.—Your choice of above varieties, Pkt. 5c, 8 Pkts. for 30c; oz., any kind, 20c.

*Tall Prize Mixture*.—This is undoubtedly the finest mixture of tall Nasturtiums offered anywhere. Every shade is grown separately and then mixed.

Large Pkt. 10c; oz. 20c; 1/4-lb. 50c; lb. \$1.50

*Tall Choice Mixed*.—A very fine selection of beautiful varieties. Pkt. 5c; oz. 10c; 1/4-lb. 30c; lb. 75c

*Ivy-Leaved, Finest Mixed*.—The ivy leaves, borne on very slender stems, are of a dark metallic color, which forms a striking contrast to the crimson scarlet flowers. An excellent variety for vases, hanging baskets, etc. Pkt. 10c; oz. 25c

*Variegated Queens*.—A new strain of tall Nasturtiums having beautifully variegated leaves; green, white and yellow; flowers large and of many bright colors.

Superb Mixed, Pkt. 10c; oz. 25c

#### Dwarf Varieties—Nasturtium

*Tropaeolum Minor*.—The flowers are very brilliant and attractive. Plants evenly dwarf and are often used for a border. When about two inches high, thin so as to give each plant about one foot of room. Hardy annual; about one foot high.

*Aurora*.—Reddish orange, veined carmine pink.

*Beauty*.—Yellow and scarlet; very attractive.

*Empress*.—Deep crimson; extra dark leaved.

*Golden King*.—A rich golden yellow.

*Regelianum*.—Purple violet; dark and rich.

*Vesuvius*.—New salmon red; very beautiful.

Price, all above Dwarf varieties, Pkt. 5c, 6 for 25c; per oz. 20c.

R. R.'s *Dwarf Beauty Mixture*.—Composed of new and rare sorts; exceedingly brilliant and beautiful.

Large pkt. 10c; oz. 20c; 1/4-lb. 50c; lb. \$1.50

*Choice Dwarf Mixed*.—Not equal to above but far superior to most mixtures.

Large pkt. 5c; oz. 15c; 1/4-lb. 30c; lb. \$1.00

## PANSY—Viola

This popular flower thrives best on a cool, moist but well-drained soil enriched with well-rotted barn-yard manure or fine ground bone. Seeds sown early will produce fine plants for autumn blooming. The proper method, though, is to sow in July or August and protect the plants during the winter, when they will flower continuously through spring and summer.

Our Pansies are renowned for size, quality and color.

### EXHIBITION PRIZE MIXTURE.

For variety of markings, beauty of form, large size, splendid texture this superb strain cannot be excelled.

Pkt. 15c;  $\frac{1}{8}$ -oz. 75c

**E. J. Steele's Mastodon.**—Giant strain; Oregon grown seed.

Mixed, Pkt. 25c;  $\frac{1}{8}$ -oz. \$2.00

**Bugnot's Large Blotched.**—A magnificent strain; very large flowers; great diversity of colors.

Pkt. 25c;  $\frac{1}{8}$ -oz. \$1.00

**Cassier's Giant, Finest Mixed.**—Strong-growing strain, producing rich and varied colored flowers of large size.

Pkt. 15c;  $\frac{1}{8}$ -oz. 75c

**English Show Strain.**—A splendid strain, valued for the texture and varied markings of the flowers.

Pkt. 10c;  $\frac{1}{8}$ -oz. \$1.00

**Choice Mixed.**—A fine bedding strain.

Pkt. 5c;  $\frac{1}{8}$ -oz. 50c

**Giant Trimardeau.**—The most popular strain for this locality, and deservedly so, on account of the strong, sturdy plants and the enormous flowers of the greatest variety of colors.

Finest Mixed, Pkt. 10c;  $\frac{1}{8}$ -oz. 75c

**Masterpiece.**—Elegant ruffled petals; beautiful large flowers, mostly rich dark shades

Pkt. 25c; 1-16-oz. 75c

### Giant Named Varieties

**Adonis.**—Light blue; beautiful.

Pkt. 10c

**Golden Queen.**—Pure rich yellow.

Pkt. 15c

**King of Blacks.**—Best velvety black.

Pkt. 10c

**Lord Beaconsfield.**—Very beautiful; violet purple, shading to white.

Pkt. 10c

**Madam Perret.**—Fine wine red shades on white.

Pkt. 15c

**Snowflake (Candidissima).**—Pure white.

Pkt. 15c

**Sunlight.**—New yellow, orchid flowered.

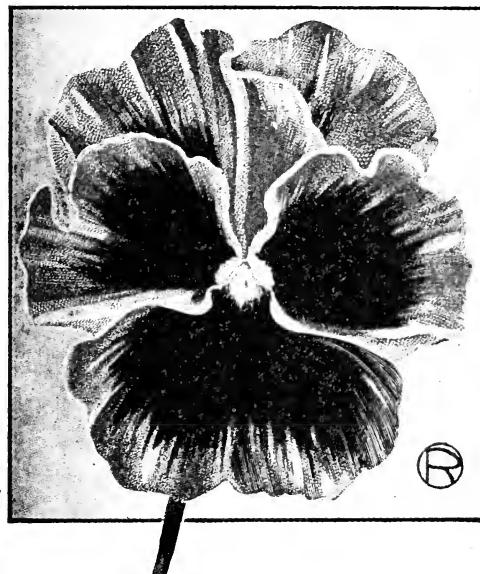
Pkt. 15c

**Purple-Eyed White.**—Very beautiful.

Pkt. 10c

**Black-Eyed Yellow.**—Very fine and effective.

Pkt. 10c



## PENTSTEMON

The handsome flowers are borne on long terminal spikes, much resembling Gloxinias. Perennial; will bloom the first season if sown early. A dry, light soil is best suited for these plants; 3 feet.

### Hartwegi Hybrida Mixed.

Pkt. 10c

**Hartwegi Albus.**—New; very beautiful; creamy yellow, turning to yellow. Large flowers, profuse bloomer, branching habit; 2½ feet.

Pkt. 25c

## PETUNIA

One of our easiest cultivated and freest flowering annuals. Will succeed almost anywhere and give a continuity of the most brilliant bloom from June till killed by frost. The strains we offer are the very choicest obtainable.

### SINGLE PETUNIAS.

**Prize Mixture.**—Magnificent, large, exquisitely fringed and blotched flowers. Vary in color from pure white to dark purple, and are often over 4 inches across; 1½ feet.

Finest Mixed, Pkt. 35c

**Ruffled Giants.**—Enormous flowers, having edges of petals beautifully ruffled and fluted. Of great variety of colors, many being beautifully veined.

Pkt. 25c

**Dwarf, Large, Flowering, Fringed.**—A new dwarf selection of the most beautiful ruffed and fringed type. Compact, free flowering plants; excellent for bedding or pots.

Pkt. 25c

**Large-Flowered, Finest Mixed.**—Fine, large flowers in superb mixture.

Pkt. 10c;  $\frac{1}{8}$ -oz. 75c

**Fine Mixed.**—An assortment of medium-sized flowers; fine for bedding.

Pkt. 5c;  $\frac{1}{8}$ -oz. 25c

### DOUBLE PETUNIAS.

All of our Double Petunias are selected with greatest care, and contain as large a percentage of double flowers as it is possible to obtain.

**Giant Double, Finest Mixed Hybrids.**—An exceptionally fine strain; remarkable for the large, beautifully colored double flowers.

Pkt. 50c

**Giant Double Mixed.**—Fringed, unsurpassed.

Pkt. 35c

**Choice Double Mixed.**—Good assortment of all double kinds.

Pkt. 25c

## PHLOX

**Drummondii.**—These varieties are the largest flowering of the annual phloxes. They are the very finest strains that can be selected, and should be grown in everyone's garden; 1 foot.

**Alba.**—Pure white, beautiful.

Pkt. 10c;  $\frac{1}{8}$ -oz. 25c

**Coccinia.**—Scarlet.

Pkt. 10c;  $\frac{1}{8}$ -oz. 25c

**Leopoldii.**—Rose, white eye.

Pkt. 10c;  $\frac{1}{8}$ -oz. 25c

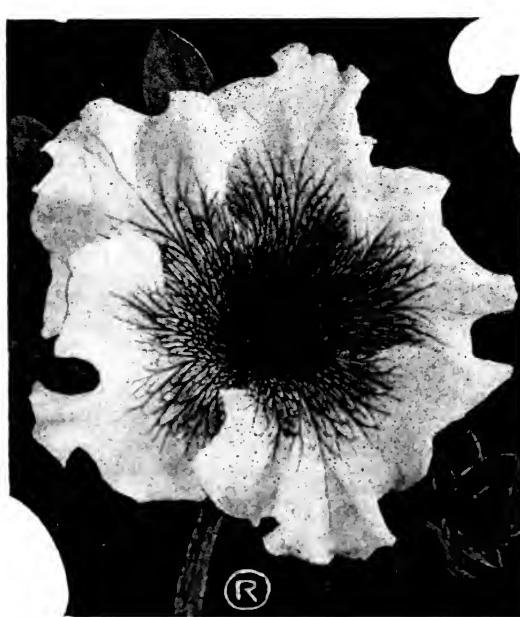
**Grandiflora Mixed.**

Pkt. 5c;  $\frac{1}{8}$ -oz. 35c

**Hardy (Decussata).**—These rank among the finest herbaceous perennials for beds and borders; mixture of the finest colors; 3 feet. (See plants, page 63.)

Pkt. 10c;  $\frac{1}{8}$ -oz. 35c

**PINK.**—(See Dianthus, page 52.)



Petunia Ruffled Giant.

Pansy and all flowering plants by the thousands. See Annual Plants, pgs. 9-10-11. Write for special price list of out-door flowering plants for April and May delivery.

**POR TULACA**

One of the freest flowering dwarf annuals, especially adapted for sunny locations. Flowers of the most brilliant colors; 6 inches.

Single, Finest Mixed Pkt. 5c  
Double, Finest Mixed Pkt. 10c

**POPPY—Papaver**

Probably no class of plant enjoys a greater popularity and is more widely grown than the Poppy. The annuals should be sown where they are to remain.

**Hansa Poppy (Annual).**—A new and beautiful single fringed type; pure white, shading to deep crimson; elegantly slitted edge. A real novelty.

Pkt. 20c; 3 for 50c

**Admiral (Annual).**—A single peony-flowered variety of surpassing beauty, having large, smooth-edged flowers of glistening white, with a broad band of brilliant scarlet around the top. These two colors form a very striking contrast, and when planted in groups produce a magnificent effect.

Pkt. 10c; ¼-oz. 25c

**Miss Sherwood (Annual).**—This fine single peony-flowered Poppy bears large flowers of a satiny white, shaded a silky chamois rose, a combination of rare delicacy.

Pkt. 10c; ¼-oz. 25c

**Shirley (Annual).**—We offer an extra fine strain of these charming Poppies. They are single and occasionally semi-double, and range in color from the purest white through the delicate shades of pale pink, rose and carmine to the deepest crimson and blood red, while many are daintily edged and striped. In fact, so varied are they that scarcely any two flowers are exactly alike.

Pkt. 10c; ¼-oz. 25c

**Annual Superb Mixture.**—A superior strain, containing the choicest of single and double varieties in all of the brightest colors.

Pkt. 5c; oz. 35c

**Carnation Flowered (Annual).**—Splendid double fringed flowers.

Mixed colors, Pkt. 5c; ¼-oz. 15c

**Iceland, or Nudicaule.**—These are of a very graceful, neat habit, with bright green, fern-like foliage, formed in tufts, from which issue slender stalks, about 12 inches in height, bearing beautiful brilliant single flowers in endless profusion, and most useful for cutting; hardy perennial.

**Yellow, White, Scarlet or Mixed.** Pkt. 10c; ¼-oz. 25c

**Oriente Brilliant.**—This is the most gorgeous perennial Poppy, flowering in June and July, with enormous vivid scarlet blossoms, often measuring 6 to 7 inches across.

Pkt. 10c; ¼-oz. 50c

**Oriental Princess Victoria Louise.**—Salmon pink.

Pkt. 15c

**Oriental Psyche.**—Delicate rosy blush.

Pkt. 15c

**California Poppy.**—(See *Eschscholtzia*, page 53.)

**Giant Yellow Tulip Poppy.**—(See *Hunnemannia*, p. 55.)

**PRIMULA—Primrose**

The first two varieties named below are hardy early blooming garden plants, and the others beautiful winter blooming house plants. Their various forms and blending of colors are exceedingly pleasing and effective. They thrive best in a sandy loam and leaf mold.

**Polyanthus.**—Early blooming, dwarf growing plants, valuable for outdoor bedding.

Mixed colors.

Pkt. 15c; ½-oz. 50c

**Vulgaris.**—Yellow, common, English Primrose; hardy garden variety.

Pkt. 10c; ½-oz. 35c

**Oboonia Grandiflora Hybrids.**—A lovely, profuse bloomer, bearing beautiful clusters of single flowers.

Pkt. 10c

**Oboonia G. Gigantia.**—New giant, distinct, very beautiful.

Pkt. 25c

**Minensis, or Chinese Primrose.**—The beautiful, large, fringed flowers stand in pyramids, arranged on short flower stems. Blossoms of every shade of color, from pure white to deep crimson, and even deep blue; especially fine for winter and spring flowers in the house; easily grown; free bloomers.

We supply the finest strains for florists.

Fine Mixed. Pkt. 25c

Double Fine Mixed. Pkt. 50c



Orientale Poppy.

**PYRETHRUM—Golden Feather**

**Aureum.**—Half-hardy perennials, grown as annuals. Valuable for edging, as their yellow foliage makes a fine contrast with other bedding plants; 6 inches.

Pkt. 5c

**RICINUS—Castor Oil Bean**

A magnificent and highly ornamental genus, with picturesque foliage and stately growth, combined with brilliant colored fruit of the giant varieties. Grown as single specimens on lawns and pleasure grounds, they form a striking feature. Hardy annuals.

Fine Mixed. Pkt. 5c; oz. 15c

**Zanzibarensis, Mixed.**—Very ornamental; dark bronzy green and red leaves. 8 to 10 feet high.

Pkt. 5c; oz. 20c

**Sanguineus Tricolor.**—Blood red stems, deep green leaves, with red veins; 6 feet.

Pkt. 5c; oz. 20c

**Gibsoni.**—New dark red foliage; 5 feet.

Pkt. 10c; oz. 25c

**SALPIGLOSSIS**

Produces very showy, funnel-shaped flowers of large size. Fine for beds. Half-hardy annuals.

**Grandiflora Mixed.**—Large-flowering. Pkt. 10c

**SALVIA—Scarlet Sage**

This popular bedding plant produces a blaze of brilliant scarlet flowers in the garden during the late summer and fall. Seed should be started in the house during March; 3 feet.

**Splendens Compacta.**—A splendid semi-dwarf variety, with large spikes of rich scarlet flowers.

Pkt. 10c; ¼-oz. \$1.00

**Zurich.**—New dwarf, of special merit; fine flowers, and starts to bloom early.

Pkt. 20c; ½-oz. 75c

**Fireball.**—The earliest semi-dwarf salvia; extremely floriferous.

Pkt. 10c; ½-oz. 75c

**SCHIZANTHUS**

Beautiful garden annuals; flowers charmingly fringed and delicately colored; 1 to 2 feet.

**Grandiflora Mixed.** Pkt. 10c

*Gifford, Idaho, April 4, 1913.*  
**Routledge Seed & Floral Co.**

Gentlemen: I received my order all O. K. and many thanks for your promptness.

Respectfully,  
**EMIL GEIGER.**

Perennial Flowers are rapidly gaining in favor. MORE should be planted; they are beautiful in borders, beds or among shrubbery, and flower each year. See pgs. 12 to 16.

### SCABIOSA—Morning Bride

Elegant, hardy annual. Fine for cutting and bedding; flowers quite large and very showy, blooming freely during summer and autumn.  
Finest Mixed. Pkt. 5c;  $\frac{1}{4}$ -oz. 30c  
White.—Large flowers. Pkt. 5c;  $\frac{1}{4}$ -oz. 30c

### SHAMROCK—True Irish

This is the genuine Shamrock, and is gathered by a connoisseur on the native land. Pkt. 25c

SNAPDRAGON.—(See *Antirrhinum*, page 48.)

### SMILAX

One of the most graceful climbers for greenhouse or conservatory. Pkt. 10c

### STOCK—Gilliflower

By far one of the most popular annuals for garden or greenhouse culture. They are superb for cutting, and are of great value to florists for bouquet work. Flowers are of delicious fragrance, large, double, and borne on handsome spikes.

**Large - Flowered Ten Weeks.**—A splendid double-flowered strain, especially adapted for bedding and pot culture; pyramidal spikes of brilliantly colored flowers; 1 foot. Finest Mixed, Pkt. 10c;  $\frac{1}{4}$ -oz. 60c

**Giant Perfection or Cut-and-Come Again.**—Grown for us in Europe, where the greatest possible care is taken in the selection of good seed. Of branching habit, 2 feet and 85 to 90 per cent of large, double flowers. Fine for cutting.

White, Light Blue, Crimson, Dark Blue, Pink, Yellow, or Finest Mixed. Pkt. 10c;  $\frac{1}{4}$ -oz. 75c

**Beauty of Nice.**—24 inches; a handsome, new winter stock of quick growth; flowers of large size. Seedlings will bloom in 10 weeks.

Mixed, Pkt. 10c;  $\frac{1}{4}$ -oz. 75c

Princess Alice.—Double White. Pkt. 15c

Queen Alexandra.—Rosy Lilac. Pkt. 15c

Beauty of Nice.—Fine pink. Pkt. 15c

**SUNFLOWER.**—(See *Helianthus*, page 54.)

**SWEET ROCKET.**—(See *Hesperis*, page 54.)

**SWEET SULTAN.**—(See *Centaurea Moschata*, page 51.)

### SWEET WILLIAM

Hardy biennial, widely grown for the handsome, showy heads of brilliant flowers from June to September;  $1\frac{1}{2}$  feet.

Single Mixed Varieties. Pkt. 5c;  $\frac{1}{4}$ -oz. 15c

Double Finest Mixed Pkt. 10c;  $\frac{1}{4}$ -oz. 30c

### THUNBERGIA

**Alba.**—Extremely pretty yellow flowers with dark eye; rapid-growing annual climber; used largely for vases, window boxes, etc. Will flower all summer till frost; 5 feet. Pkt. 10c

**Alba.**—Pure white, with black eye; 5 feet. Pkt. 10c

**Aurantiaca.**—Orange, black eye. Pkt. 10c

**Finest Mixed** Pkt. 5c;  $\frac{1}{4}$ -oz. 30c

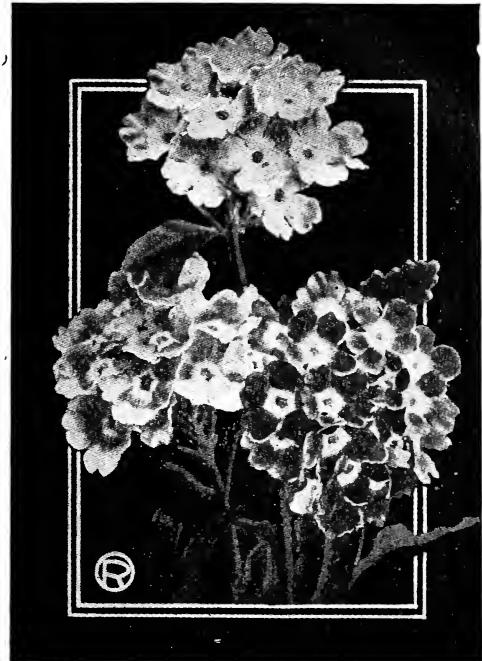
### VALERIANA (Garden Heliotrope)

A fine old-fashioned hardy plant. Flowers have a strong heliotrope odor; showy, red or white; fine for bouquets; 2 feet. Mixed, Pkt. 5c

### VERBENA

One of the finest annual bedding plants and also suitable for borders, baskets and window boxes. Its heads of brilliant colored flowers produce one mass of bloom throughout the summer.

**Monstrosa**—(Auricula Eyed).—The most beautiful and remarkable variety yet introduced, far surpassing in size and beauty the well-known variety "Mammoth." The flowers measure  $1\frac{1}{4}$  inches across, of good substance and in great variety of colors, each flower having a very large white center, which is very effective in contrast with the brilliant coloring of the main portion of the flower. Hybrida Mixed, Pkt. 20c



Verbena Monstrosa.

**Mammoth Strain.**—A carefully selected and improved strain. The trusses and individual flowers are of the largest size, of brilliant colors; free blooming and of vigorous habit. White, Scarlet, Rose, Purple, Striped or Mammoth Mixed.

Pkt. 10c;  $\frac{1}{4}$ -oz. 75c

**Fine Mixed.**—A good collection. Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

### VIOLET

*Viola Odorata* is the well-known English Violet, a free flowering, hardy perennial. Easily grown from seed, though somewhat slow in germinating; succeeds best in partially shaded, moist places.

**Odorata, Blue or White.** Pkt. 15c

### WALLFLOWER

Very highly prized, old-fashioned plants, grown largely for their fragrance; half-hardy perennial varieties;  $1\frac{1}{2}$  feet.

**Single Finest Mixed.** Pkt. 5c

**Double Tall Branching, Finest Mixed.**—Fragrant; 3 feet. Pkt. 10c

**WILD CUCUMBER.**—(See *Echinocystis*, page 53.)

### ZINNIA—Youth and Old Age

The double Zinnia is one of the easiest grown and most showy garden annuals. The plants come quickly from seed and make a fine display in a bed or border. Each flower lasts for several weeks, and the plants bloom abundantly until destroyed by frost;  $1\frac{1}{2}$ -2 feet.

**Elegans Grandiflora.**—A very choice selection of the largest showy varieties. Double Mixed, Pkt. 10c

**Elegans, Green Gem.**—New and distinct, a novelty; green color shaded with gold; mammoth double flowers. Pkt. 20c

**Elegans Cardinal.**—A new shade, rich glowing crimson; mammoth double flowers. Pkt. 15c

**Giant Isabella.**—New, delicate buff shaded yellow; very double and perfect; flowers over 4 inches across. Pkt. 20c

**Tall Giant, Double Mixed.**—Elegant strain, comprising all colors;  $2\frac{1}{2}$  feet. Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

**Dwarf Double Mixed.**—Fine for edgings, growing  $1\frac{1}{2}$  feet high. Pkt. 5c;  $\frac{1}{4}$ -oz. 25c

More Hardy Flowering Shrubs should be planted in the west—they increase and grow more beautiful year by year. See pgs. 82 to 92.

## SWEET PEAS of Highest Quality

No seed company in the world offers finer Sweet Pea Seed than we. The new orchid-flowered or Spencer types are the latest, and well worth the higher price asked. Those who have tried the true "new Spencers" will never be satisfied again with the old types.

### BEST BY TEST.

During the last season we tested by field trials nearly 100 varieties of Sweet Peas from the best American and European growers and offer you below what we believe to be the very choicest under each color:

### 1914 PRIZE COLLECTION.

#### Latest and Best Novelties.

**Special**—One packet each (9 kinds), value \$1.60,  
only \$1.00.

#### King White

1914 Novelty.—Superior in form, size, substance and purity of color to any other white "spencer."  
Packets only 25c each

#### Elfrida Pearson

A giant flower of finest form and exquisite coloring. Profuse bloomer.  
A lovely shade of light pink.  
Pkt. 15c; two for 25c

#### Melba

A magnificent light salmon color, very attractive and winsome. Flowers very large and grand for exhibition and decorations. Award of merit Royal Horticultural Society.  
Pkt. 25c

#### Maud Holmes

A new English introduction. Elegant form and type and a beautiful crimson scarlet, giant wavy flowers, four to a stem.  
Pkt. 15c; ½ oz. 35c

#### Masterpiece

The finest lavender, absolutely true and fixed. On account of its reliability it has been placed at the top of the list of lavenders by the N. S. P. S.  
Pkt. 15c; ½ oz. 35c

#### Barbara

Awarded a First Class Certificate by the N. S. P. S. A magnificent shade of salmon. Barbara was given first prize for best vase salmon-orange at the Oregon Sweet Pea Show last year. Perfect form, giant size. We offer true seed from Europe. To retain the most delicate color flowers should be shaded.  
Pkt. 25c; 2 for 35c

#### Constance Olliver

Exceedingly rich and beautiful, salmon pink or cream suffused rich rosy pink. Mammoth flowers, four to a stem.  
Pkt. 10c; oz. 35c

#### Vermillion Brilliant

Large flowers on long stems, the most brilliant scarlet sweet pea to date. A prize winner.  
Pkt. 15c; ½ oz. 40c

**MARCHIONESS OF TWEEDDALE.**—Very attractive and pleasing, charming color, white, heavily margined with rosy carmine, elegant form, large flowers.  
Pkt. 15c; ½ oz. 40c

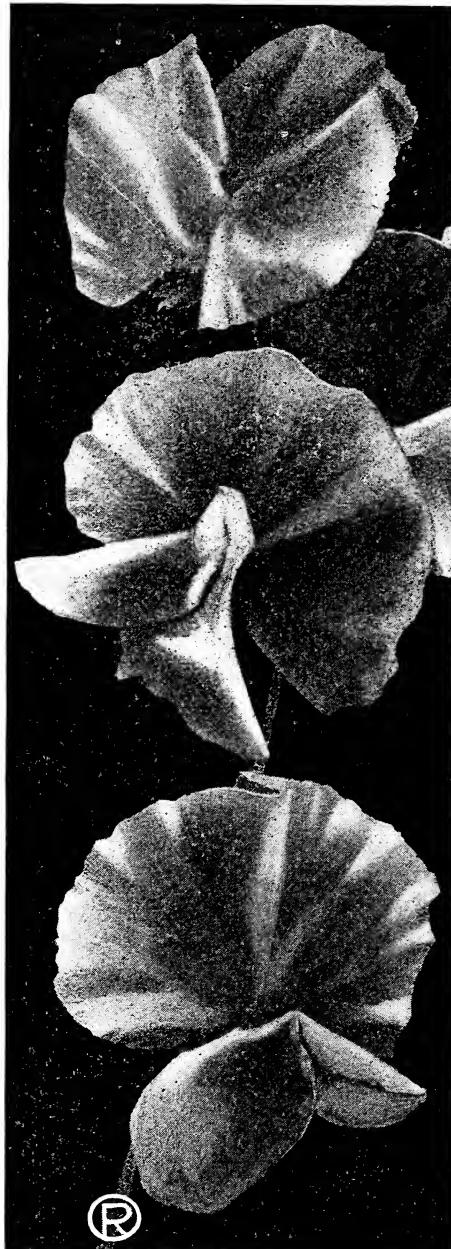
## R. S. & F. Co.'s Giant Spencer Collection

We have put up, in one large, beautifully lithographed envelope, seven distinct and new Giant "Spencers"; each kind in a separate packet and properly marked. This collection contains "Cultural Directions" and one full-sized packet of the following kinds:

|                              |     |                              |     |
|------------------------------|-----|------------------------------|-----|
| WHITE SPENCER.—Pure white    | 10c | ASTA OHN SPENCER.—Lavender.  | 10c |
| PRIMROSE SPENCER.—Cream      | 10c | HELEN LEWIS SPENCER.—Orange. | 10c |
| MRS. W. C. BREADMORE.—Pink.  | 10c | NOVELTY.—Some new kind.      | 15c |
| KING EDWARD SPENCER.—Scarlet | 10c |                              |     |

**THIS 75c COLLECTION FOR ONLY 50c POSTPAID.**

**NOTE.**—In case of shortage we reserve the right to alter above collection to other varieties of same color and equal value. For full descriptions of above varieties see next page.



## Spencer Sweet Peas of Real Merit

No seed house in the world offers a more select list. We classify under colors for your convenience.

**SPECIAL IN PACKETS**, your selection, 60c WORTH FOR 50c; \$1.25 for \$1.00.

### Pure White

**ETA DYKE**.—The largest and most exquisitely formed pure white Spencer according to N. S. P. S. Beautifully waved; color absolutely pure.

Pkt. 10c;  $\frac{1}{2}$  oz. 20c

**KING WHITE**.—(See "Novelties," page 60.)

**WHITE SPENCER**.—A pure white, of enormous size and splendid substance; long, strong stems; very popular.

Pkt. 10c; oz. 25c

### Cream—Buff

**CLARA CURTIS**.—The best light yellow in color and size. Placed at the head of the list by N. S. P. S.

Pkt. 10c; oz. 40c

**PRIMROSE SPENCER**.—A pronounced primrose or creamy white; excellent flower. Pkt. 10c; oz. 25c

### Cream—Pink

**ETHEL ROOSEVELT**.—A soft, pleasing primrose overlaid with dainty bright pink.

Pkt. 10c;  $\frac{1}{2}$  oz. 25c

**CONSTANCE OLLIVER**.—(See page 60.)

**EVELYN HEMUS**.—Cream, with a pink edge. A most exquisite flower and very distinct.

Pkt. 10c; oz. 25c

**MRS. W. C. BREADMORE**.—An English introduction of exquisite beauty. Buff ground, beautifully shaded with pink; large. Pkt. 10c; oz. 25c

**MRS. HENRY BELL**.—Giant flowers of finest form. A most charming rich pink on cream. Magnificent in every respect.

Pkt. 15c;  $\frac{1}{2}$  oz. 25c

**NELL GWYNNE**.—Very large and wavy. A most charming type; cream suffused with salmon pink.

Pkt. 10c;  $\frac{1}{2}$  oz. 20c

### Light Pink

**CONSTANCE OLLIVER**.—A refined variety of great beauty and form; rich, delicate salmon pink; charmingly waved and crimped. The large, beautiful flowers, usually in fours well placed on long, strong stems.

Pkt. 10c; oz. 35c

**ELFRIDA PEARSON**.—(See "Novelties," page 60.)

**MRS. HUGH DICKSON**.—The best light pink to date. A European novelty of sterling merit. You will be delighted with this.

Pkt. 15c;  $\frac{1}{2}$  oz. 35c

**MRS. ROUTZAHN**.—A lovely combination of apricot and pink. Beautiful, large wavy flowers. Praised by all who have grown it.

Pkt. 10c;  $\frac{1}{2}$  oz. 25c

### Pink

**COUNTESS SPENCER**.—Improved strain. Flowers extremely large, beautifully expanded, crumpled and waved. Color soft shell pink, deeper at the outer edges. True seed.

Pkt. 10c; oz. 25c

**MRS. A. IRELAND**.—The form is most beautiful; petals waved and crinkled; distinct serrations on edges of standard. The extra large, long-stemmed flowers are most attractive; the best rosy pink.

Pkt. 10c; oz. 35c

### Scarlet—Crimson

**DORIS BURT**.—A fine large "Spencer," sunproof scarlet, intense red, good substance.

Pkt. 10c; oz. 35c

**GEORGE STARK**.—Awarded 4 F. C. C. and 1 medal. Flowers of perfect form, waved and fluted; of large size. The wings are of the same intense bright pure scarlet as the standard, making a uniform self-color throughout and absolutely sunproof. The best scarlet to date.

Pkt. 15c;  $\frac{1}{2}$  oz. 35c; oz. 50c

**KING EDWARD SPENCER**.—Of vigorous growth, profuse bloomer, giant flowers; most popular; scarlet; long stems.

Pkt. 10c; oz. 35c

**VERMILION BRILLIANT**. — See "Novelties," page 60.)

### Dark Red—Claret

**ARTHUR GREEN**.—This is a magnificent new variety of largest size and distinct shade. The general color effect is that of dark claret.

Pkt. 15c;  $\frac{1}{2}$  oz. 50c

**MADDO HOLMES**.—(See "Novelties," page 60.)

**OTHELLO SPENCER**.—The stems are strong and long, with three or four fine, very large blooms of a rich deep maroon.

Pkt. 10c; oz. 25c

**PRINCE OF ASTURIAS**.—A grand, extra large flower of excellent form; deep dark red; very rich; a profuse bloomer.

Pkt. 15c; oz. 35c

### Lavender

**ASTA OHN SPENCER**.—Color a beautiful lavender; flowers large, wavy and generally come four blossoms to the stem. We offer a very select strain.

Pkt. 10c; oz. 35c

**FLORENCE NIGHTINGALE**.—Burpee's lavender introduction, but we do not think it equal to others under this heading. Giant flowers on long stems; bluish lavender.

Pkt. 10c; oz. 35c

**FLORA NORTON SPENCER**.—A beautiful shade of light blue or lavender; very desirable.

Pkt. 10c; oz. 35c

**MASTERPIECE**.—(See "Novelties," page 60.)

### Blue

**CAPTAIN OF THE BLUES, SPENCER**.—Clear purple, blue; a bright striking color.

Pkt. 10c; oz. 35c

**MRS. G. CHARLES**.—A new shade of deep blue. large wavy flowers of excellent form.

Pkt. 15c;  $\frac{1}{2}$  oz. 35c

**ROSIE ADAMS**.—New, peacock blue, a color that has long been wanted; try it.

Pkt. 10c; oz. 40c

### Orange or Salmon

**THOS. STEPHENSON**.—Recognized by the N. S. P. S. as the best and most brilliant orange. Flowers are very beautiful, extra large; come 3 and 4 to the stem.

Pkt. 15c;  $\frac{1}{2}$  oz. 50c

**AUDRY CRIER**.—A beautiful new English sort of the finest Spencer type. Color rich salmon pink, shaded orange. A true giant flower, with stems and growth to match.

Pkt. 10c; oz. 35c

**HELEN LEWIS SPENCER**.—Very popular with florists and large growers. A profuse bloomer. Flowers large, nicely waved and of an intense rich crimson-orange or salmon.

Pkt. 10c; oz. 25c

**BARBARA**.—(See "Novelties," page 60.)

**MELBA**.—(See "Novelties," page 60.)

**STIRLING STENT**.—Deep salmon, suffused with orange.

Pkt. 15c;  $\frac{1}{2}$  oz. 50c

### DISTINCT AND SHADED VARIETIES

**CHARLES FOSTER**.—A beautiful novelty, a suffusion of salmon, amber, lavender and rose running through and varying in depth of color, but becoming rather darker at the base of the standard and wings. Flowers of largest size and finest Spencer form are produced three and four on a stem. Undoubtedly a variety which will be much sought after.

Pkt. 15c; 2 for 25c

**ELSIE HERBERT**.—Large, creamy white with a pink edge; very dainty and distinct. Recognized by N. S. P. S.

Pkt. 15c;  $\frac{1}{2}$  oz. 25c

**PICOTEE**.—A lovely new and distinct "Spencer." Flowers white, beautifully edged carmine, large and well waved. An exhibition and florist's variety.

Pkt. 10c; oz. 25c

**SENATOR SPENCER**.—Claret and chocolate stripe, on light ground, large and most distinct, much admired; a profuse bloomer.

Pkt. 10c; oz. 35c

**MRS. HARDCASTLE SYKES**.—Giant flowers on long stems, elegant form, white, delicately edged and marginated pink.

Pkt. 15c;  $\frac{1}{2}$  oz. 40c

**MRS. WILCOX**.—Bright and attractive; white, striped bright red; very pretty.

Pkt. 10c; oz. 25c

**RAMONA SPENCER**.—Very attractive, clear white, with soft, delicate lines and flakes of blush pink.

Pkt. 15c;  $\frac{1}{2}$  oz. 25c

**XENOPHON**.—This is a decided novelty, most distinct and attractive. Large flowers, full and wavy, many have a double standard and come 3 and 4 to the stem. Color white, suffused and edged lavender. Very desirable.

Pkt. 15c;  $\frac{1}{2}$  oz. 40c

## Silver Medal Collection of Unwin Sweet Peas

### Silver Medal Collection of Unwin Sweet Peas

Price any variety: Pkt. 5c; oz. 15c; 4 oz. 50c  
Special: 1 pkt. each of the following (8 kinds) only 25c; 1 oz. each 75c.

Large, wavy, strong growing, free flowering sweet peas, often put in the Spencer class, but they are a "distinct race." Much larger and finer than the grandiflora, but not quite equal to the Giant Spencers.

Nora Unwin.—Pure white and large in size; exquisitely crinkled, wavy petals.

Phyllis Unwin.—Long stems carry three and four flowers each; of a beautiful rose color throughout.

Mrs. Alfred Watkins.—A clear pink color which is rather deeper and heavier at the outer edges.

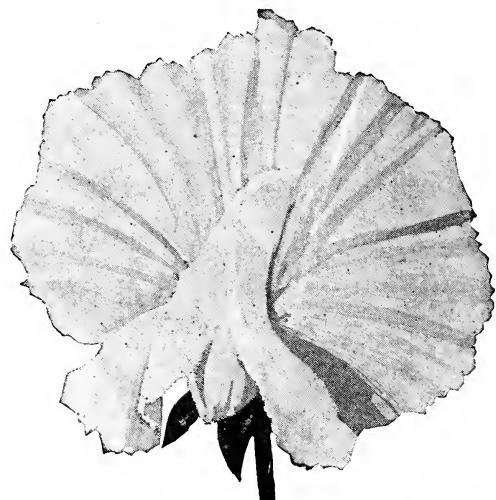
Frank Dolby.—A lovely light lavender; bold, wavy and beautifully fluted.

Gladys Unwin.—A bold, wavy flower. Of a lovely light pink color.

St. George.—An English introduction. Magnificent large flowers; beautiful rich orange shade.

Unique.—The large, broadly expanded flowers are delicately flaked with lavender on a white ground.

Chrissie Unwin.—A beautiful cerise.



Single Flower Spencer "Type" Sweet Peas, Showing Fullness.

## R. R.'S Superb Giant Spencer Mixture Sweet Peas

This is our own special mixture and is composed only of the best giant orchid-flowered wavy Spencer types, also contains some new seedlings that have not as yet been named. For healthy, robust growth, wealth of blooms, size of flowers and exquisite and rare colorings, this mixture is unequaled.

Put up and for sale in sealed packages only,  $\frac{1}{2}$ -oz. pkts., 15c; oz. pkts., 25c each; 3 for 60c; 6 for \$1.00

## Popular and Best Grandiflora Sweet Peas

Aside from the preceding varieties, these are the "cream" of over 100 named varieties. Prices: Your selection, pkt. 5c, 7 pkts. for 25c; oz. 10c, 7 1-oz. pkts. 50c;  $\frac{1}{4}$ -lb. 25c; lb. 75c.

### WHITE.

Dorothy Eckford.—A good white of the largest and best grandiflora type. A free bloomer.

### PRIMROSE.

Mrs. Collier.—A rich primrose tint, entirely free from any trace of pink.

### PINK.

Lovely.—Beautiful shades of soft shell pink, changing to very light rose at the outer edges.

Janet Scott.—Clear pink at the base and shading to buff at the edges.

### ROSE.

John Ingman.—A rich carmine-rose, with wings of a deep rosy pink.

### RED-SCARLET.

King Edward VII.—Large flowers of open form, bright crimson-scarlet. Long stems; fine flowers.

Othello (Improved Black Knight).—Very dark red, shaded almost black.

### ORANGE.

Henry Eckford.—A bright, soft flaming orange, deepening slightly in the center. Large and beautiful.

Miss Willmott.—A bright orange-pink, showing veins of a deeper tint.

### STRIPED AND VARIEGATED.

America.—Heavily striped with bright red on silvery white ground.

Aurora.—Beautifully flaked with bright orange-salmon on a creamy white ground.

Blanche Ferry.—Bright rose standard with white wings.

Helen Pierce.—Color pure white, peppered or mottled with bright blue.

Lottie Eckford.—Large Silvery-white flowers, beautifully shaded and edged with soft lavender.

### LAVENDER-BLUE.

Lady Grisel Hamilton.—A grand, pale lavender. Planted extensively by florists for the best lavender.

Lord Nelson (Brilliant Blue).—Very large, slightly hooded, the most desirable blue.

## Rose City Mixture of Grandiflora

Extraordinary care has been taken in the selection of the varieties and the quantities of each to make up the mixture, and the result is one that cannot fail to excite the admiration of even the most critical.

## Cupid Sweet Peas

Compact dwarf plants, not over six or seven inches high. Flowers of good size and substance. For edgings, low beds and pot culture they are unique and pretty. White, Pink, Primrose, Scarlet, Lavender or Mixed. Pkt. 5c; oz. 15c;  $\frac{1}{4}$  lb. 40c; lb. \$1.00

## Winter Flowering (Forcing)

For florists' use for forcing in greenhouses for winter flowers.

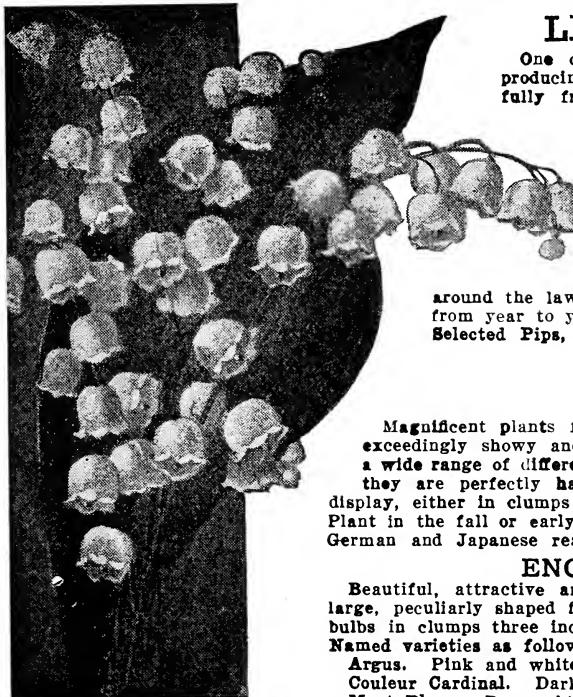
|                                      | Oz.    | $\frac{1}{4}$ -lb. |
|--------------------------------------|--------|--------------------|
| Christmas White.—Early white.....    | \$0.25 | \$0.75             |
| Christmas Pink.—Pink and white.....  | .25    | .75                |
| Mrs. F. J. Dolansky.—Light pink..... | .40    | 1.50               |
| Mrs. Wm. Sims.—Salmon pink.....      | .40    | 1.50               |
| Mrs. A. Wallace.—Lavender .....      | .40    | 1.50               |

### Double Mixed

These generally bloom about 50 per cent double flowers.

Pkt. 10c; oz. 20c

FREE our pamphlet, HOW TO GROW PRIZE SWEET PEAS—free with any order if asked for.



Lily of Valley (Spray)

## LILY OF THE VALLEY

One of the most charming spring flowering plants, producing in profusion its delicate bell-shaped, delightfully fragrant white flowers. Valleys thrive in any common soil, and will do well in shady situations, where few other plants will succeed. Highly prized for cutting purposes, and exceedingly well adapted for flowering in pots in the winter. Can be forced to bloom in four to six weeks from time of planting. Plant 6 pips to a 6-inch pot.

They are perfectly hardy and most charming planted in beds or borders around the lawn, where they can remain. Increase and bloom from year to year. Ready from December to March.

Selected Pips, for forcing indoors or planting outside.

Each, 5c; doz., 40c; per 100, \$2.50

## IRIS

Magnificent plants for the garden. They bloom profusely and are exceedingly showy and fragrant. The colors are brilliant and cover a wide range of different shades and combinations. In the open ground they are perfectly hardy, increase rapidly and make a magnificent display, either in clumps or borders. They do best in rich, moist soils. Plant in the fall or early spring. English and Spanish ready in October. German and Japanese ready in December; native stock earlier.

### ENGLISH IRIS—Anglica

Beautiful, attractive and worthy of a place in every garden. Their large, peculiarly shaped flowers remind one of the rare orchids. Set the bulbs in clumps three inches apart each way and three inches deep. Named varieties as follows: Each, 6c; doz., 50c; 100, \$8.00.

Argus. Pink and white.

Couleur Cardinal. Dark velvety blue.

Mont Blanc. Pure white.

Thackeray. Rich claret color.

Washington. Pale lavender, mottled blue.

Superfine Mixed, all colors.

Each, 6c; doz., 80c; 100, \$1.50

Don't overlook our fine Hardy Perennial Flowering Plants, pgs. 11 to 16.

### SPANISH IRIS—Iris Hispanica

One of the most satisfactory varieties of Iris to grow, being very hardy and equally good for forcing indoors or garden culture. The flowers are of great beauty, having many different blendings of colors, and if cut when in the bud will last a long time in water. (See cut.)

Named varieties as follows: Doz., 20c; 100, \$1.00

Cajanes. Best bright yellow.

British Queen. Large, pure white; extra.

Louise. Beautiful light blue.

Leonidas. Dark violet blue.

Thunderbolt. Velvety dark bronze; large flowers.

Superfine Mixed. Doz., 15c; 100, 75c



### GERMAN IRIS—Iris Germanica

These are perfectly hardy, thrive anywhere, grow and bloom luxuriantly, and are remarkably rich and beautiful in color and graceful in form, deliciously fragrant and fine for cutting.

Named varieties as follows: Each, 15c; doz., \$1.50.

Florentina. Silvery white, and pencilled yellow.

Maori King. Standards golden yellow; falls velvet crimson-edged yellow.

Shakespeare. Standards straw yellow, veined brown; falls carmine violet.

Spectabilis. Violet, shaded purple.

Fine Mixed. All colors assorted. Each, 10c; doz., \$1.00

### JAPAN IRIS—Kaempferi

The Japanese Iris is quite distinct from all others, and never fails to excite the admiration of all who see it. It is becoming more popular each year. The enormous flowers display a marvelous blending of rich and rare shades. We offer named varieties in the following shaded colors: Blue, Lavender, Red, White and Variegated.

Separate Colors: Each, 20c; doz., \$2.00. Mixed, good assortment: Each, 15c; doz., \$1.50.

### IRIS—

No. 1. Spanish

No. 2. German

No. 3. English

No. 4. Japanese

Plant More Iris. They are Perfectly Hardy and Increase in Size and Beauty Each Year.

## ROUTLEDGE'S SUPERB GLADIOLI BULBS

No member of the floral family has made more rapid strides in development than the Gladiolus. The wonderful, beautiful, and large-flowered varieties of today are not to be compared to the small, insignificant varieties of a few years ago. Gladioli bulbs are good from year to year, and multiply quite rapidly, therefore are really not expensive, so buy the "best."

### GLORY—A new ruffled type

THE TYPE is distinctively new. Broad, expanded, wide, open flowers, paired by twos, face all the same direction and are carried on straight, stout stalks, never less than 3½ feet in height. From four to eight flowers are open at one time. Each petal is exquisitely ruffled and fluted at the edges. Delicate cream pink, with a neat, attractive crimson stripe in the center of each lower petal. Greatly admired this last summer at our displays.

Each 15c; dozen \$1.50; 100 \$10.00

### Wild Rose Collection

Contains the following six rare and magnificent Gladioli. ONLY \$1.20 postpaid, including one bulb of the new "Glory."

**BLANCHE.**—Very large flowers, pure snow white, with but faint marks. A sterling variety.

Each 20c; dozen \$2.00

**FIREKING.**—Long, graceful spikes of intense fire-scarlet flowers; more brilliant than any other variety. Six or more flowers open together.

Each 25c; dozen \$2.50

**NIAGARA.**—An entire new color, a shade of rich cream combined with canary yellow. Of grand form and habit. The individual flowers are very large and borne in pairs opposite each other. Much admired by all who saw it last season.

Each 35c; dozen \$3.50

**SARATOGA.**—Flowers large, flaming orange, a color much admired.

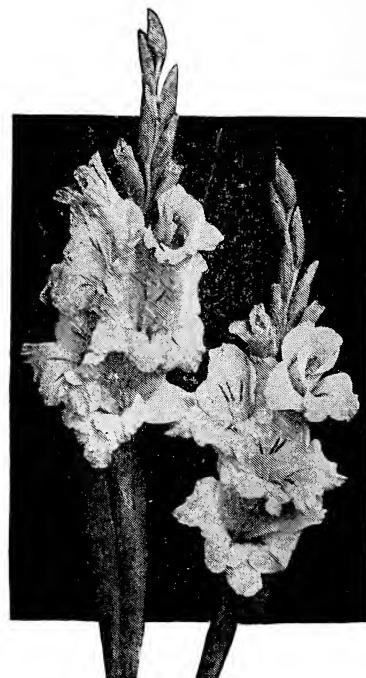
Each 15c; dozen \$1.50

**SULPHUR KING.**—Beautiful, deep sulphur yellow, fine and clear, without doubt this is the very best yellow variety to date, both in size, type and color.

Each 20c; dozen \$2.00

**WILD ROSE.**—A very beautiful flower, distinct, delicate and pretty. A bright rose or blush tint.

Each 20c; dozen \$2.00



New Ruffled "Glory."

### Gladioli of Merit

The following are the most desirable and popular varieties. If you want to try one bulb of each, ask for BEAUTY COLLECTION and send 60c (regular value 85c).

**AMERICA.**—Without a rival. New and most desirable. A grand, large spike and flower; beautiful flesh color, considered the best pink to date.

Each 6c; dozen 60c; 100 \$4.00

**AUGUSTA.**—Pure white, blue anthers; a lovely and desirable variety.

Each 5c; dozen 50c; 100 \$3.50

**ATTRACTION.**—Deep, dark, rich crimson with a large, pure white center. Very attractive.

Each 7c; dozen 75c; 100 \$4.00

**BLUE JAY (Baron Hulot).**—The finest blue Gladiolus yet seen. It is a rich deep color of indigo shade.

Each 15c; dozen \$1.50; 100 \$8.00

**BRENCHLEYENSIS.**—Vermillion-scarlet; one of the most showy, satisfactory and cheapest.

Each 5c; dozen 50c; 100 \$3.00

**KLONDYKE.**—Soft light yellow, long spike, large blossoms. Very desirable.

Each 7c; dozen 75c; 100 \$5.00

**MRS. FRANCIS KING.**—One of the most showy varieties. Of great merit. Color of flower is a light scarlet of a pleasing shade, which attracts attention at once. Flowers are very large, but graceful, and are borne on long spikes. Be sure and plant liberally of this kind.

Each 6c; dozen 60c; 100 \$4.00

**PRINCEPS.**—The dazzling scarlet florets are immense in size and beauty. The slight marking of white on the lower petal sets it off to great advantage.

Each 15c; dozen \$1.50; 100 \$10.00

**ROSY SPRAY.**—White, beautifully shaded rose. A fine large flower. Much admired.

Each 15c; dozen \$1.50; 100 \$8.50

### Our Grand Mixed Gladioli

Our mixed Gladioli are very fine indeed, being choice varieties only. All old and common ones have been discarded, and customers can depend upon having a large and magnificent variety of colors.

#### Mixtures Under Separate Colors

These are very choice and absolutely true to color and contain many fine named varieties.

Doz. 100

**WHITE AND LIGHT** varieties.....\$0.65 \$4.00

**SCARLET AND RED** ..... .60 4.00

**PINK** and rose shades..... .60 4.00

**YELLOW AND ORANGE** ..... .85 6.00

**STRIPED AND VARIEGATED** ..... .75 5.00

Dozen price postpaid; 100 price by express, at your expense.

**CHOICEST MIXED.**—A mixture of named varieties and all sorts, giving in one bed the greatest range of colors and variations. A large per cent of Childsi. Great value. Large bulbs, per dozen 75c, postpaid; by express or freight 60c dozen; \$4.00 per 100.

**POPULAR MIXTURE.**—This mixture will produce a large variety of flowers at a little expense; unequalled for the price.

Per dozen, postpaid, 60c; by express or freight, 50c dozen; \$3.00 per 100.



Tigridia Flower ( $\frac{1}{2}$  size).

## TIGRIDIAS.

(Tiger, or Shell Flower.)

These are gorgeous, rare and unique summer-flowering bulbs that look well associated with Gladioli, Lillies and kindred stock; grow about  $1\frac{1}{2}$  feet high, and flower freely throughout the summer. They require the same treatment as Gladioli, and should be lifted in autumn and dried off in the same way.

Mixed.—Yellow, crimson, white, rose and spotted.  
Each 5c; dozen 50c, postpaid; per 100 \$3.50



Tuberose.

## TUBEROSES.

One of the best-known and most easily grown summer flowering bulbs. Easily recognized by its exquisite fragrance and beautiful spikes of white flowers, which are borne on long stems, making it an admirable cut-flower for house decoration. If started in pots and then transplanted to open ground can be had much earlier. For flowering in the open border plant in April or May, or as soon as the ground becomes warm.

The "Excelsior" strain of Dwarf Pearl Tuberose is greatly improved in habit of growth, extreme doubleness of the large flowers, and in very early flowering. The stems being more dwarf and stiffly erect, they do not need to be staked and tied as do the tall sorts. We offer select, large-flowering bulbs.

Each 5c; doz. 50c Postpaid; per 100 \$3.00

## BEAUTIFUL HARDY LILIES

These are the most fragrant, beautiful and stately of all flowers produced from bulbs; they require very little care. Do not disturb them oftener than every three to five years. Plant about six to twelve inches deep, according to size of bulb, and if the ground is not well drained use plenty of sand around the bulb, and lay it on its side. Plant in clusters or groups of six or more for best effect. The Formosa and Longiflorum Lilies force very easily. The Speciosum are, next to the Auratums, the most magnificent species for outdoor culture. They increase in size and beauty each year.

**LILIUM CANDIDUM.**—This is the ever-popular, fragrant, snow-white, hardy garden Lily. The flowers are produced in clusters, at the top of 4 to 5-foot stems; blooms in the open ground in June. A very hardy and popular Lily.

Each, 15c; doz., \$1.50; mammoth bulbs, 20c

**LILIUM L. FORMOSUM.**—This new Lily from Japan has taken the place of L. Harrissi on this coast. The best for early forcing. Bulbs arrive in September. Plant in the fall or early spring.

Each, 15c; doz., \$1.50; mammoth bulbs, 20c

**LILIUM LONGIFLORUM.**—Very much like the above but a little later; planted by the thousands by florists for Easter flowers; profuse bloomer. In the open ground they bloom in June and July.

Each, 15c; doz., \$1.50; mammoth bulbs, 20c

### Lilium Auratum

(Gold Banded Lily)

The handsomest and probably the most popular of the Japan Lilies. Its immense ivory-white flowers are thickly studded with yellow and crimson spots, while in the center of each petal is a golden band, shading its edges into white; very fragrant.

Each, 15c; doz., \$1.50; mammoth bulbs, 20c; doz., \$2.00.

**AURATUM PICTUM.** A most magnificent flower of same shape and color as Auratum above except that one-half of the gold band on each petal is a bright crimson; very rare and showy.

Each 25c; dozen \$2.50

### Tiger Lilies

**TIGRINUM FLORE PLENO** (12) (Double Tiger Lily). A magnificent lily of stately habit, bearing immense clusters of large, double flowers; color bright orange, spotted with black.

Each, 15c; doz., \$1.50; mammoth size, 20c; doz., \$2.00.

**TIGRINUM SPLENDENS** (12) (Improved Single Tiger Lily). Large flowers of excellent form; color orange salmon, with dark spots; hardy and free bloomer.

Each 10c; doz. \$1.00; mammoth size, each 15c; doz., \$1.50.

**AURATUM RUBRUM VITTATUM.** Very large flowers, often one foot across, pure ivory-white, with broad crimson stripe through center of each petal.

Each 40c; dozen \$4.00



Lilium Auratum.

### Lilium Speciosum

No words can overestimate the brilliant beauty of this charming variety. Its six broad white or pink petals are thickly dotted with rose or carmine spots, and the graceful form, brilliant color, and exquisite fragrance make this one of the most effective and desirable of the lily family. They are profuse bloomers, and last for many days after being cut and put in water.

**SPECIOSUM ALBUM.** Pure white; flowers freely.

Each, 20c; doz., \$2.00; mammoth bulbs, 25c; doz., \$2.50

**SPECIOSUM RUBRUM.** White, with dark rose spots.

Each, 15c; doz., \$1.50; mammoth bulbs, 20c

**SPECIOSUM MAGNIFICUM.** A new and rare variety; the finest of all the Speciosums; flowers very large, white, shaded rich blood crimson, heavily spotted; very rich and showy.

Each, 20c; doz., \$2.00; mammoth bulbs, 25c; doz., \$2.50

### Mt. Hood Lily

**WASHINGTONIANUM** (10) (Mt. Hood Lily). A beautiful lily, native of Oregon; flower of open form; white, tinted with lilac; grows 3 to 5 feet high; very fragrant.

Each, 20c; doz., \$2.00; mammoth bulbs, 25c each

**NOTE.**—On display at our salesroom we have colored plates of all our lilies, which will give you an excellent idea of just the shape and colors.

# ROUTLEDGE SEED AND FLORAL C'S NEW AND POPULAR DAHLIAS



**GEISHA**

We are the largest growers of new and up-to-date Dahlias in the Northwest.  
All Dahlia Bulbs delivered free anywhere in United States.

No doubt many of our customers will remember the beautiful displays of cut flowers we made at the Dahlia Show and our growing exhibits at the State Fair and Irvington. Three displays were made for the purpose of showing the new and up-to-date varieties and how easily they are grown out of doors.

Each year we test out, in our dahlia fields where we have daily and ample opportunity for comparison, a hundred or more new and late introductions along with the standard varieties. After paying careful attention to the length and strength of flower stem, the growth of plant, perfection, color and profusion of bloom, we make

our selection for growing the following year. We never discard a standard variety until we find a better one, all points considered. Therefore, you are assured of the very best if you select and buy from us. We do not grow seedlings and name them as others do.

## Peony Dahlias.

### THE VERY LATEST IN PEONY DAHLIAS.

Our Holland dahlia specialist has sent us some very new introductions, which we offer in pot-grown plants for this season. If you want to be "up-to-date," in fact about three years ahead of the average American grower, buy this collection this year.

#### Avalanche—(1914)

Pure white, the latest introduction and claimed to be the best white in this class; award of merit. Each \$2.50 (plants only)

#### America—(1913)

Of superior merit in shape, color and size. A pleasing combination of apricot, old rose and orange, very attractive and very rare. Given first-class certificate at Amsterdam and Haarlem. Price, each \$2.00

#### Duchess of Brunswick—(1914)

Bright red, blooms eight to nine inches across, the outside of the florets being apricot. First-class certificate Amsterdam and Haarlem; also by National Dahlia Society, and award of merit London. Each \$5.00 (plants only)

#### Great Britain—(1913)

Flowers a beautiful clear mauve and mammoth in size. A grand addition to this class. Each \$2.00

#### Geisha—(1909. See cut, page 66.)

Not new, but of great merit and very popular. Large, fantastic and beautiful flower that pleases everyone. The most popular and showy peony dahlia to date. The color of Geisha is unique, being a rich, bright golden yellow, suffused with clear bright red, shading toward points of petals into the clear yellow; a beautiful deep golden center adds to the harmony of the color scheme which is the most striking and brilliant ever seen in a Dahlia. The immense flowers often attain a width of 10 to 12 inches, and the massive petals, more than in any other peony type, are twisted and curled in the most fantastic manner. (See cut.) Each 60c

#### Hortulanus Budde—(1912)

A new vivid scarlet peony-flowered dahlia, the "best ever." Given Award of Merit Amsterdam. Offered in America for the first time by us last year. Each \$1.00

#### Hortulanus Fiet—(1912)

A new color in peony dahlias and of mammoth size. A rich and pleasing apricot shading to old gold in center. Given first-class certificate at Amsterdam and Award of Merit at Haarlem. We offered it in America for first time last year. Each \$1.00

#### Hortulanus Witte—(1912)

We tried this new novelty in our dahlia fields this past season and pronounce it by far the best white in size, shape and style of flowers—very large, strong stems and excellent for cutting. Will outclass all other varieties in its color for decorations. Each \$1.50

#### Leo XIII—(1914)

Deep yellow, remarkable form, very attractive, award of merit and First-class certificate. Each \$2.50 (plants only)

#### Madame Jeanne Martin—(1911)

Very attractive; the large flowers are semi-double (full petalled) and quite distinct. Ground color yellow, striped and splashed garnet red; flowers vary greatly in color. Each 60c

#### Zeppelin—(1912)

A beautiful, true, new lavender. Given Award of Merit Amsterdam, Holland. Offered in America for first time by us last year. Flowers large, well formed and on long, strong stems. Excellent for cutting and decorations. Each \$1.00

**DAHLIA PLANTS.**—Dahlia plants bloom the first season and produce more and better flowers than bulbs, but require more careful handling.

**SPECIAL CASH OFFER**—In collections (of 3 or more bulbs) we will give you \$2.40 worth for \$2.00; \$3.60 for \$3.00, etc. (20c extra on the dollar) collection prices excepted.

## New and Up-to-Date Peony Dahlias.

**Special.**—One each following 14 varieties (value \$6.20) postpaid, only \$4.50, or you can make your own collection of \$2.40 for \$2.00, \$3.60 for \$3.00, etc.; in other words, 20c extra on the dollar, collection prices excepted.

### Pure White

**SNOW QUEEN.**—A beautiful pure white; full twisted petals; stiff stems. Each 35c

**QUEEN WILHELMINA.**—Pure white; flat petals; free bloomer. Each 35c

**GIANT EDELWEISS.**—Pure white, petals extra long and pointed, profuse bloomer and much liked. Each 50c

### White, Shaded

**ALICE ROOSEVELT.**—Beautiful well formed full flowers; color white, shaded lilac. Each 50c

**DR. K. W. VAN GORKOM.**—Magnificent large blooms, white, softly shaded rose. Each 60c

**H. J. LOVINK.**—A grand large flower, white shaded lilac. Excellent. Each 50c

### Cream or Yellow

**KING LEOPOLD.**—Cream-yellow shading to white; flowers flat petaled, on long stiff stems. Each 35c

**CAESAR (F. C. C. 1911).**—The best yellow. Full and fantastic, stiff stems (see cut). Each 50c

### Pink

**QUEEN EMMA.**—Giant flowers of rosy pink, showing shade of yellow to the center; long stiff stems. Bright and most desirable. Each 35c

**ANDREW CARNEGIE.**—Color salmon-pink, with bronze shadings; the form is most unique. Each 50c

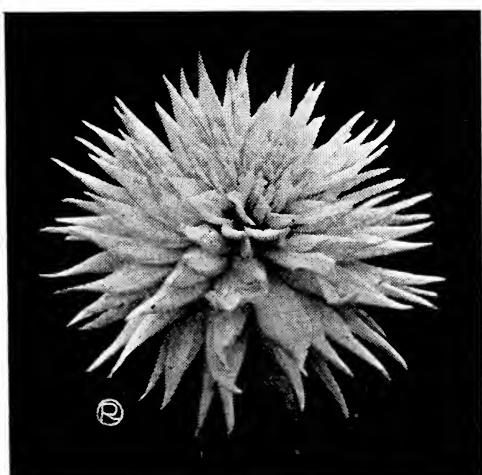
### Orange and Salmon

**BERTHA VON SUTTNER.**—Color beautiful salmon-pink, shaded yellow; the flowers very large and full to the center; of elegant form and carried erect on strong stems; much admired. Each 75c

## New Cactus Dahlias for 1914.

These are French and German introductions of great merit. We have seen the flowers and know each one is a gem. **SPECIAL CASH OFFER.**—The 12 varieties (value \$11.25) only \$7.50 postpaid.

**ALFRED NOMBLOT.**—Extra large flowers with incurving petals, Geranium red; under side of petals plum, with a golden sheen at base of petals. A beautiful combination and very desirable. Each 75c



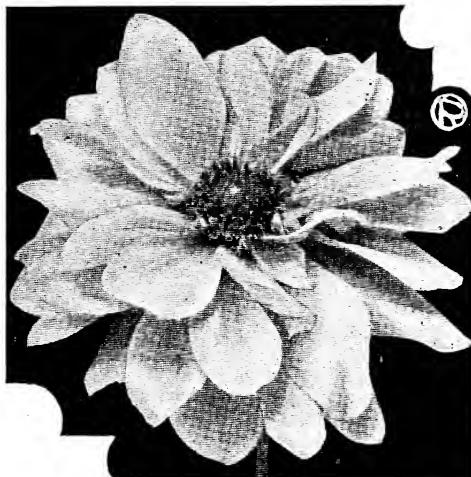
Dollar Prinzessen.

**GLORY OF GROENEKAN.**—Orange-yellow; extra large flower. Each 35c

**P. W. JANSEN.**—Old rose and salmon-bronze, with dash of yellow to the center. Excellent stems and flowers. Free bloomer. Each 35c

### Red

**GERMANIA.**—Bright glowing crimson, the best in this color. Fine for cutting. Each 35c



Caesar—Peony Flowered.

**DOLLAR PRINZESSEN.**—Light lilac, extra fine form, flowers freely produced on long stems. Each \$1.00

**ELISE CROZY.**—A beautiful flower; white shading to rosy mauve. Each \$1.00

**Ferdinand Cayeux.**—The darkest dahlia to date, deep velvety maroon, long pointed petals, extra good stems. Each \$1.25

**INDIANERIN.**—Carmine scarlet, dark center, a rare rich color. Flowers rather flat, of good shape, with long pointed, twisted petals, long stems, a free bloomer. Each \$1.00

**MAD. LOUIS HOT.**—Light carmine red shading to heliotrope. Flowers large and full, petals long, pointed and incurving. Good stems. A grand variety. Each \$1.25

**MANDELBLUTE.**—Beautiful in shape and color, a rich deep pink, free blooming and the most desirable pink to date. Each 75c

**NERTHUS.**—Fine form, large flowers on strong stems. Rosy carmine, points of petals lilac rose, with center of flower showing a yellow sheen. A splendid, beautiful flower. Each 75c

**MERCURY.**—Beautiful large full flowers. Petals fine and pointed, incurving. Coral red, deeper to the center. Each \$1.00

**PHANOMEM.**—A noble variety, very beautiful bronze yellow, overlaid light rose, long stems, much admired at the German shows. Each \$1.00

**RENE CAYEUX.** (See back cover).—A grand variety. An early, continuous and free bloomer. Flowers of elegant shape, borne well above the foliage on strong stems. For a hedge or a mass effect it could not be equaled. A rich bright red. Bushes compact and about 3½ feet high. Each 60c; dozen \$5.00

**SUZANNE CAYEUX.**—White exhibition variety, the largest and best to date. Flowers very large, beautiful and graceful; incurving. Each \$1.00

**Note**—Dahlias should be planted late in the spring. Bulb ready after February 1st. Dahlia plants after April 1st.

## Grand Prize Collection New Cactus Dahlias.

Six new and wonderful Dahlias, every one a prize winner. Special—the six (value \$6.75) only \$4.50.

**COMTESSE R. DE BEAUCHAMP.**—A grand large flower full to the center, incurving petals. Old gold, or a copper shade, with a golden sheen in the center. Very rich and desirable.

Each \$1.25

**DUCHESSE DE LA ROCHEFOUCAULD.**—A desirable, graceful flower with fine pointed petals, creamy white with fine stripes of carmine. Each \$1.00

**Jeanne Hardy.**—Of great merit, extra large handsome flowers, petals rolled, pointed and incurving in the most pleasing style. An exhibition variety of great substance. Pure carmine red, lightly tipped white.

Each \$1.00

**MANON.**—Extra large flowers, sulphur yellow shading to primrose at points of petals. A free bloomer and very desirable.

Each \$1.00

**MARY FRISSARD.**—A very striking flower, distinct and of fine form. Rose, striped and mottled carmine, yellow center.

Each \$1.00

**MEPHISTO.**—Very fine showy flowers. Shining fiery red, borne on long, stiff stems, petals curved and flowers full.

Each \$1.50



Villa De Lyon.

## Superb Cactus Dahlias of Recent Introduction.

**SPECIAL CASH OFFER**—In collections of 3 or more bulbs we will give you \$2.40 worth for \$2.00; \$3.60 for \$3.00, etc. In other words, 20c extra on the dollar.

**AUSTRIA.**—Of fine form, pale bronze with yellow. Free bloomer and has very good stems.

Each 60c

**CHARLES PARNOT.**—Lilac rose, striped carmine, very distinct. Elegant form and very beautiful.

Each \$1.00

**CHANTECLER.**—A very large, handsome, full flower of excellent form and type. Color, rosy red, shaded orange, petals long and narrow.

Each 60c

**CONSTANTIN.**—A beautiful large flower with curving, twisting petals. A most pleasing rich, rosy red; free blooming.

Each 75c

**COUNTESS OF MALMSBURY.**—Dainty peach rose, petals pointed and twisted, free flowering, very showy and exquisite.

Each \$1.00

**DUCHESSE DE CHANTRES.**—An incurved long petaled exhibition variety. Sulphur yellow passing to heliotrope.

Each \$1.25

**EXCENTRIQUE.**—A very decided and distinct flower peculiar twisted and reflexing petals. Color violet red, margined pure white. Flowers vary in markings and color.

Each \$1.00

**GRANATE.**—Shining orange-red of splendid shape, carried well above the foliage on very good strong stems.

Each 75c

**GOLDREGEN.**—Pure yellow; large, handsome flowers held erect on long stiff stems. An ideal yellow.

Each 40c

**IVERNIA.**—Flowers of largest size with long narrow incurving petals; color salmon pink.

Each 75c

**JULES VACHEROT.**—Redish orange and white of freakish nature, there being a great difference in the combination of colors of the flowers on the same plant. Very attractive.

Each 75c

**Mad. Paul Bultot.**—A beautiful shade and combination of aurora and salmon. Extra fine form. Petals incurving and twisted.

Each 60c

**MADEMOISELLE CAZALIS.**—Pure white, with long flat pointed petals. Flower perfect in form, large and very full to the center.

Each 75c

**MODELL.**—A beautiful clear yellow, with a delicate plum blush sheen over tips of petals; a dainty, lovely flower of large size, perfect form, petals incurving, erect on long stems.

Each 50c

**MRS. FERDINAND JEFFRIES.**—Long petals curved and twisted, giving the flower a shaggy appearance. Color deep velvety red.

Each 75c

**MONSIEUR BARAT.**—A large and beautiful flower; color, white, striped and lined purple and violet, making it very showy and attractive.

Each \$1.00

**MONSIEUR ROGER LECLERC.**—Flowers are extra large, long petals slightly incurving; stems strong and hold the flower upright. A charming primrose shading to pure white at petal points. Superb.

Each 75c

**MONSIEUR CAZALIS.**—White, overlaid with violet rose, producing a lavender shade. Very desirable.

Each 75c

**NANKIN.**—A wonderful long stemmed variety. Flowers of a chamois color or the shade of raw silk. A splendid color by day and artificial light. Excellent for cutting.

Each 75c

**ORIENT.**—Fine shaped flowers. Very dark brown red. Good long stems.

Each 50c

**PANORAMA.**—Well shaped flowers on long stems, rosy lilac in color. Good free blooming variety, splendid for cut flowers. Highly recommended.

Each 75c

**POESIE.**—Dainty canary yellow. Points of petals over-laid rose. Very dainty and pleasing, extra fine, free bloomer.

Each 75c

**SILBERSTERN.**—Excellent flower, cream white, long stems. Very free blooming.

Each 60c

**VILLA DE LYON.**—A magnificent large flower of superb texture and strength. Petals straight and pointed, rich rose, center almost pure white.

Each 75c

**WM. MARSHALL.**—Flowers extra large, fine form, long twisted petals. Color yellow over-laid and shaded orange. An even growing, free bloomer. A recent English introduction of merit.

Each 50c

**YVONNE MAUMONT.**—Odd and fantastic; petals long and twisted; incurving. Flowers large; orange overlaid red; distinct.

Each 60c

## Cactus Dahlias of Real Merit.

In addition to the novelties offered on the preceding pages, the following are "par excellent" — every one a "real gem." The best list of moderate priced dahlias offered in the United States.

**Special.—Remember, you can select \$1.20 worth for \$1.00, \$2.40 for \$2.00, etc.**

### WHITE

Fairy.—Pure white, very narrow, long and twisting petals; beautiful form; the most refined of this color. Each 25c

Gunther.—A splendid pure white dahlia with broad, twisted petals of the purest white. Flowers held well above the foliage on stiff stems. Each 75c

Lawine.—White; large size; early and free, with strong stems, holding the flower erect. Each 35c

### PINK SHADES

Borneman's Liebling.—The extra large and beautiful clear pink flowers. Each 35c

Frau Hermina Marx.—Abundant bloomer. Flowers of fine form; charming pink. Each 25c

Gondola.—A clear rosy pink, large flowers, with long, narrow, peculiarly twisted petals. Each 50c

Irvish.—Beautiful rosy peach, a shade very much sought. The flowers are carried well above the foliage. Free bloomer. Each 50c

Kriemhilde.—Color delicate pink, shading to white in the center; lasts well when cut. Each 20c

Ruth Forbes.—The massive clear pink flowers; stems long and strong. Each 35c

### YELLOW SHADES

Armigo.—Lovely large flower, with long incurved petals; color clear chrome yellow. Each 50c

Aurora.—Large, elegant; soft pink, slightly tipped white; heart brilliant golden. Each 25c

Glory of Wilts.—A magnificent deep golden yellow of large size and splendid quality. Incurving petals. Each 50c

Lady Fair.—Pale yellow tinted rose, fine twisted incurving petals. Each 60c

Miss Dorothy Olliver.—Pale primrose; large flower: pointed petals. Each 35c

Sequela.—A beautiful variety, with long tubular petals cleft at the tips, of a deep saffron-yellow. Each 35c

Stern.—A beautiful flat-petaled, star-shaped flower of pure lemon-yellow; free flowering. Each 35c

### ORANGE SHADES

Aprikose.—A beautiful and profuse bloomer and a most desirable color. Apricot or golden yellow overlaid orange. Fine form. Each 40c

Countess of Lonsdale.—For perfection of bloom, size of stem and abundance of flowers, although quite old, this variety has never been excelled. The color is a rich salmon, tinted apricot. Each 25c

Master Carl.—Gigantic flowers of perfect form and bright amber color. Stems rather short. Each 35c

Prince of Orange.—Old gold, orange and yellow; a large, perfect flower; free bloomer. Each 35c

### RED SHADES

Cardinal King.—A brilliant, rich cardinal red; the flowers of perfect form and exceptionally large; a grand exhibition variety. Each 50c

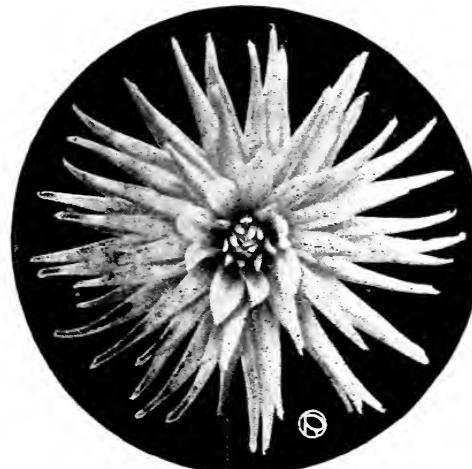
Cordove.—Large, beautiful, incurving flowers of a most desirable red. Good strong stems. Each 75c

Emperor.—Plum color; quite velvety. Each 30c

Loyalty.—Petals claw-like, fluted, incurving: fan-tastic; bright coral-red. Each 35c

Madame J. B. Plumet.—A beautiful rose shading to a white center. Each 40c

Mad. H. Denavis.—A very beautiful and charming variety, a combination of rose mauve and white. Each 60c



Monsieur Roger Leclerc.

Madame Champin.—A deep rich red of most desirable form and type. Good stem, profuse bloomer. Each 60c

Madame Varvier.—Flamboyant red. Colors distinct. Each 40c

Nelson.—Distinct flowers; large and freely produced on long stems; petals long, narrow and curling; color rich crimson, shading to magenta. Each 50c

Staghorn.—Bright carmine, the petals being furcated on the end; odd and fantastic. Each 35c

Uncle Tom.—Free bloomer; deep crimson, almost black; petal rather flat and pointed. Each 20c

### LAVENDER, VIOLET SHADES

Debutante.—Long, narrow, incurved petals and arranged very regularly. A pleasing soft tint of mauve-pink, passing to white at the center. Each 40c

Hortensia.—A beautiful lavender, lighter toward the center, nearly white. Flowers finely twisted. Each 35c

Mad. Eugene Remy.—Rosy lilac over-laid maroon, very rich and a free bloomer. Petals long, of fine form and incurving. Each 60c

Monsieur Deese.—Very free blooming; large perfect flowers of a rosy violet. Each 40c

Souvenir de Jusserand.—New lilac rose striped light carmine. Each 40c

Viola.—A full well shaped flower, very rich and desirable. Violet purple, best in its color. Each 75c

### TIPPED OR STRIPED

Columbia.—Bright vermillion; petals incurving and tip of each pure white; attractive. Each 25c

Fleuriste Bizet.—Very distinct and charming; points of petals cut. Color white shaded and edged rosy carmine. Each 50c

Miss Fanny Foster.—Dainty pretty flowers; white bordered lavender and red. Each 40c

Mirifique.—Fine Cactus Dahlia, wine color, center tipped white, covered with violet lilac. Color distinct. Each 50c

## Show Dahlias—Quilled.

Very beautiful and desirable. Excellent for cutting. Stand handling and shipping well. In shape they are rather round or ball-shaped, and the petals are quilled (see illustration below).

**COLUMBINE.**—Pale rosy lilac, striped and mottled carmine. Each 60c

**HALLEBARDE.**—Extra large fine flowers, a very attractive and pleasing combination of yellow and orange. Each \$1.00

**LeSIAM.**—A grand flower, same style and shape as the ever popular Grand Duke Alexis, but of a rich, deep red. Free bloomers and good stems, very desirable. Each \$1.50

**GRAND DUTCHESS MARIE.**—Extra large flowers, same style as above, but of a pleasing orange buff and light salmon. A free bloomer and much admired. Each 75c

**MAD. L. GUILLOT.**—Salmon orange, white tips. Mammoth flowers. Each \$1.00

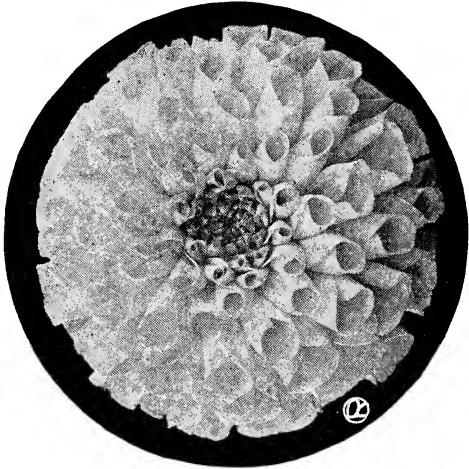
**BALZAC.**—Extra large perfect flowers, dark velvety maroon, very rich. The superb flowers are borne on long, strong stems. Each \$1.00

**W. W. RAWSON (See Cut).**—The massive, perfect but graceful flowers are borne on long, stiff, erect stems. The color is pure white, overlaid with amethyst-blue, producing a delicate lavender. Lasts well cut and one of the most desirable in the entire "show" class. Try it. Each 50c

**GRAND DUKE ALEXIS.**—This is not a new variety, but still holds its own among the newer introductions. It is a grand, large flower and always scarce on the market on account of the large demand. Color, ivory white, lightly tinged rosy lavender on edge of petals. Each 25c

**DREER'S WHITE.**—A pure, glistening white, resembling in form the popular Grand Duke Alexis. Free flowering and most valuable for cutting and show. Each 35c

**MRS. ROOSEVELT.**—Of immense size, fine color, graceful form and has excellent stems for cutting; the flowers are perfectly double, a most delicate pink. Each 35c



W. W. Rawson (about ½ size)

**Glorie de Lyon.**—Very large, pure white; this really is one of the finest white we have seen. Each 25c

**A. D. Livoni.**—A beautiful, clear pink; very free flowering; fine for cutting. Each 25c

**Fascination.**—Rosy pink, free flowering, very large and desirable. Each 20c

**Thomas Pendred.**—Clear yellow; this is without doubt the finest yellow show dahlia ever offered. Each 25c

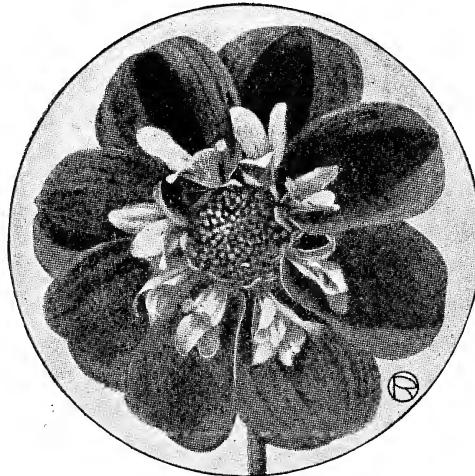
**Diadem.**—Very large, quilled flowers of fine form on long stems; a beautiful rich crimson. Each 25c

**Willie Garrett.**—Bright rich red; fine flower. 20c

**W. P. Laird.**—Lilac, veined darker; very fine form; odd color. Each 20c

**Lucy Fawcett.**—Sulphur-yellow, flaked crimson. 20c

**Henry Clark.**—Pure lilac, edged and penciled with a deeper shade, and irregularly blotched with clear yellow; coloring is unique. Each 25c



French Collerette.

## NEW GIANT SINGLE FLOWERED DAHLIAS.

This class of dahlias has become quite popular of late. Very free flowering and excellent for cutting and general decorating. We offer only new, improved and really desirable varieties.

**ALLEGRO.**—Distinct; sulphur yellow and aurora, striped maroon. Each 60c

**ANMUTH.**—Giant single flowers of dainty rose or pink, unusually free blooming, of splendid carriage and long, strong stem. Was much admired at our last dahlia show. Each 60c

**FARANDOLE.**—Velvety cerise red, yellow center; freely produced on long stems. Each 50c

**FEGOLI.**—New, giant single flower on long, strong stems. Carmine with a large spot of pure white on each broad, flat petal; very showy and distinct. Each 60c

**MELINA.**—Extra large flowers on long stems. A beautiful light rose. Each 60c

**PEGASE.**—Vermillion orange, shaded golden orange. Very desirable. Each 60c

**TROUBADOUR.**—Bronze copper and blood red. Very effective. Each 50c

**Note.**—Dahlias should be planted late in the spring. Bulb ready after February 1st. Dahlia plants after April 1st. We will replace free any bulb not true to name.

## New Decorative Dahlias.

The following new introductions are mammoth in size, rich in colors and so attractive they caused quite a sensation when shown last fall.

**SPECIAL CASH OFFER**—In collections (of 3 or more bulbs) we will give you \$2.40 worth for \$2.00; \$3.60 worth for \$3.00, etc.; that is, 20c free or extra on the dollar.

**CALEB POWERS**.—An early and free bloomer. Good size and of a beautiful, delicate, soft pink. Flowers on long stems and of splendid form. Each 50c

**DELICE**.—A glowing, rich pink; perfect shape, stout, stiff stems; when cut it retains its freshness for a long time. Each 35c

**Gaiety**.—A superb new vivid scarlet, beautifully tipped with pure white. It is a variety far above the average of the fancy type. Each 35c

**GLORIE DE PARIS**.—A new French variety. Garnet red and purple violet. Extra large flowers. Each 60c

**Jack Rose**.—A grand variety; flowers are full and large; a rich, velvety crimson. Each 20c

**Manitou**.—Immense size. The color is pleasing and attractive, being a pure, rich yellow suffused deep pink or rose; stems rather short. Each 35c

**Meadow Gold**.—Flowers large and produced in great profusion from early to late. Primrose yellow, tinged delicate pink. Each 35c

**Miss Francis Fell**.—Pure white; large and always full and good in the center. Each 25c

**Mrs. Winter**.—Well known one of the best white in this class for cutting; pure white. Each 20c

**Mme. Van Den Dael**.—A splendid, large, soft rose, with deeper markings, shading to creamy white. Each 20c

**MME. JEANNE CHANTRE**.—A grand new flower, rich pink or bright rose, shading to a creamy white. Grand, showy and pleasing flowers on strong stems. Of special merit. Given first-class certificate, Lyons, France. Each \$1.00



Princess Julianne,

**MONSIEUR CAPRON**.—Handsome, large flowers, amaranthe crimson, each petal delicately edged pure white. A distinctive and most desirable color. The reflexing petals are even and well placed. Very showy. Each 75c

**Navajo**.—Bold, rich flowers a most intense velvety red. Each 25c

**Norma**.—Bright orange; one of the best grown; extra fine shape. Each 25c

**PRINCESS JULIANNE** (See Cut).—Award of Merit, Amsterdam; Award of Merit, R. H. S. London. Flower large, full, pure white, perfect shape, stands erect on long, stiff stems and lasts for days. Each 75c

**Prof. Mansfield**.—A very large showy rich yellow with clear white tips and a slight marking of rosy red toward the center. Each 35c

**Reve D'Or**.—Magnificent new color, flaming red, yellow and copper; a superb flower, profuse bloomer and much admired. Each 60c

**Souvenir de Gustave Doazon**.—The immense flowers are borne in profusion; color a rich scarlet. Disbud to secure "Mammoth" 9 or 10-inch flowers. Each 25c; dozen \$2.50

**Wodan**.—Bold, large flower; a graceful arrangement of semi-incurved tubular petals of a pleasing, delicate salmon-rose color, shading to old gold in the center. Each 50c



Mme. Jeanne Chantre.

Astoria, Ore., April 22, 1913.

Routledge Seed & Floral Co.

Dear Sirs: The roses received on 19th. I sincerely thank you for them. It is a pleasure to open such roses, and I want to thank you for that fine Reve d'Or. I was so happy to get it.

Again thanking you for your fine rose bushes, and promptness in sending them.

Yours truly,

MRS. F. C. ROWAN.

Fruitland, Idaho, April 16, 1913.

Routledge Seed & Floral Co.

Sirs: The shipment of plants and roses came last Saturday and we are much pleased with everything. Planted them at once and they all look as if they would grow. Thanking you for your trouble.

ELEANOR RODGERS.

Tacoma, Wash., May 8, 1913.

Routledge Seed & Floral Co.

Dear Sirs: We received the 9 pounds of Sweet Pea Seed all O. K., and they are up. I think every seed came. We are more than pleased with the outlook.

Very respectfully,

E. W. BEEDLE.  
(Per M. E. B.)

**OUR IRVINGTON DAHLIA DISPLAY**—Any one who took down the numbers on the plants can get the names of same by mailing or bringing them to us.



Calla Lily (in full flower).

hold water and put pot away from light. Do not start growth again until bulb shows signs of life itself, which it will do (even when soil is perfectly dry) by pushing out new leaves.

**BELLADONNA MAJOR.**—Fine variety, free flowering and fragrant. Large bulbs, each 35c, postpaid

**JOHNSONI.**—Immense trumpet shaped flowers, rich

## CALLA LILIES.

**GOLDEN YELLOW** (*Elliottiana*).—Perfectly hardy. For garden planting. This is the best of the Yellow Callas, its flowers being as large as the popular white variety, but of a rich, lustrous golden-yellow of velvety texture; the foliage is dark green, with translucent creamy-white spots, which add much to its beauty.

Strong bulbs, each 35c postpaid

**WHITE CALLA** *Ethiopa* (Lily of the Nile).—One of the best bulbs for flowering in pots. Bulbs each 15c to 25c postpaid

## Begonias—T. R.

Excellent for pot culture or planting as lawn beds and borders. They should be grown more extensively than they now are, for they require no more care than ordinary bedding plants. They will thrive either in full sunshine or partial shade, but when fully exposed to the sun the beds must be kept moist.

**SINGLE MIXED,**

Each 10c; doz. 85c postpaid

**DOUBLE MIXED,**

Each 15c; doz. \$1.50 postpaid

## AMARYLLIS.

Very popular for house culture and easily grown by everyone, the chief point being to give the bulbs alternate periods of rest and growth. When the leaves appear give water and plenty of light; after flowers are off and leaves have started to turn yellow withdraw water and put pot away from light. Do not start growth again until bulb shows signs of life itself.

velvety crimson with a white strip on center of each petal. Each 35c

**FORMOSISSIMA.**—Very popular, flowers dark scarlet, strangely marked. Excellent for pots or garden. Each 25c

## CANNAS.

Such great improvements have been made in Cannas during the past few years that any one not posted would scarcely recognize them. They are now generally considered the most showy and effective bedding plants, and are of the easiest culture, requiring only good garden soil. They have tropical appearing foliage and large, showy flowers, some of which are truly orchid-like.

Plant canna roots early in the spring; just as soon as the ground gets warm. Plants can be planted as late as June 15 with success.

When you buy our plants, you will be sure of success. Plant any time in May or early June, 18 inches apart in beds of the deepest, richest soil you can give them. (Nineteen plants required for a circular bed 7 feet across.)

## Prices.

Strong roots or plants 20c each, \$2.00 dozen. Large potted plants, 15 to 18 inches high, 35c each, \$3.00 dozen. In case of shortage, we will substitute varieties of same color, unless otherwise instructed.

**KING HUMBERT.**—Its mammoth flowers are produced in heavy trusses of gigantic size, and are of a brilliant orange scarlet, while the foliage is broad and massive and of a rich, coppery bronze; bold and effective; has no equal; 5 feet.

**MADAM CROZY.**—Very showy and attractive; scarlet flowers, bordered with a band of pure yellow; green foliage; 3½ feet.

**PENNSYLVANIA.**—Green foliage, intense vermillion scarlet, overlaid orange, 5 ft.

**ALLEMANIA.**—Green foliage, flowers large, orange-scarlet, golden markings, 5 ft.



Canna Plant, grown in Japanese tub (from photograph)

**WYOMING.**—Bronge purple foliage, with immense spikes of orange flowers, 5 ft.

**FLORENCE VAUGH.**—Green foliage. Flowers large and perfect form, bright rich golden yellow, spotted with red, 4 ft.

**Annual Flowering Plants.**—During April and May we have thousands of Flowering Plants for porch boxes, beds and borders. Prices pg. 11, or write us.

## INDEX TO OUR TWO-YEAR-OLD ROSES.

On this page we give an alphabetical list of all the roses we have to offer in two-year-old sizes together with the prices of same and the pages in our catalog on which they will be found described. Remember that our two-year-old roses are field grown, with strong, heavy branches and ample roots. They must not be confounded with the so-called two-year-old roses as sold by some nurserymen and mail order houses.

| NAME                         | Page | Price         | NAME                              | Page | Price        |
|------------------------------|------|---------------|-----------------------------------|------|--------------|
| Admiral Dewey                | 75   | \$0.35 \$0.50 | Lady Roberts                      | 77   | .50          |
| American Beauty              | 76   | .50 .60       | Lady Ursula                       | 75   | .50 .60      |
| Anna Oliver                  | 79   | .35 .50       | La Detroit                        | 75   | .35 .50      |
| Avoca                        | 76   | .50 .60       | La France                         | 75   | .35 .50      |
| Baron De Bonstettin          | 77   | .35 .50       | Le Progress                       | 79   | .50 .60      |
| Baroness Rothchild           | 76   | .35 .50       | Liberty                           | 76   | .50 .60      |
| Beauty of Glazenvwood (Clb.) | 81   | .40 .60       | Lyon                              | 77   | .50 .60      |
| Belle Siebrecht              | 75   | .35 .50       | Madame Alfred Carrier (Clb.)      | 81   | .35 .50      |
| Betty                        | 77   | .40 .50       | Madame Caroline Testout           | 75   | .35 .50      |
| Blanch Moreau                | 79   | .35           | Madame Hoste                      | 79   | .35 .50      |
| British Queen                | 74   | 1.25          | Madame Maurice de Luze            | 76   | .75          |
| Carine                       | 77   | 1.50          | Madame Melanie Soupert            | 77   | .50 .60      |
| Captain Christy              | 76   | .35 .50       | Madame Ravery                     | 77   | .50 .60      |
| Cecile Brunner               | 76   | .35 .50       | Madame Segond Webber              | 78   | .50 .60      |
| Chateau de clos Vougeot      | 76   | .75           | Magna Charta                      | 76   | .35 .50      |
| Chapeau de Napoleon          | 79   | .35           | Maman Cochet                      | 76   | .35 .50      |
| Clb. Frau Karl Druschki      | 81   | .60 .75       | Marechal Neil (Clb.)              | 81   | .35 .50      |
| Clb. Kaiserin                | 81   | .35 .50       | Marie Van Houtte                  | 79   | .35 .50      |
| Clb. Madam Caroline Testout  | 81   | .40 .50       | Marquis de Sinty                  | 77   | .60 .75      |
| Clb. Meteor                  | 81   | .40 .50       | Melody                            | 79   | 1.50         |
| Clb. Papa Gontier            | 81   | .60 .75       | Memorial Roses                    | 80   | .35          |
| Clb. Reve d'Or (Safrafo)     | 81   | .35 .50       | Mildred Grant                     | 75   | .50 .60      |
| Clb. Safrafo                 | 81   | .35 .50       | Miss Kate Moulton                 | 78   | .50 .75      |
| Clb. Wootton                 | 81   | .40 .50       | Moss Roses                        | 79   | .35          |
| Crested Moss                 | 79   | .35           | Mrs. A. Waddell                   | 78   | .60 .75      |
| Crimson Rambler              | 80   | .35 .50       | Mrs. Aaron Ward                   | 78   | .60 .75      |
| Dear Hole                    | 77   | .35 .50       | Mrs. Foley Hobbs                  | 74   | 1.00         |
| Dorothy Page Roberts         | 77   | .50 .60       | Mrs. John Laing                   | 75   | .35 .50      |
| Dorothy Perkins              | 80   | .35 .50       | My Maryland                       | 78   | .50 .60      |
| Elizabeth Barnes             | 77   | .60           | Papa Gontier                      | 76   | .35 .50      |
| Etoile de France             | 76   | .35 .50       | Paul Neyron                       | 76   | .35 .50      |
| Flower of Fairfield          | 80   | .35 .50       | Perle Des Jardines                | 79   | .35 .50      |
| Florence Pemberton           | 75   | .40 .60       | Prince Camille de Rohan           | 77   | .35 .50      |
| Frau Karl Druschki           | 74   | .35 .50       | Rayon d'Or                        | 79   | 1.00         |
| Fred Harms                   | 79   | .75           | Red Nephitos (see Lady Battersea) | 76   | .35 .50      |
| Friedrichsruh                | 76   | .75           | Reine Marie Henriette (Clb.)      | 81   | .35 .50      |
| Furst Bismark                | 79   | .60 .75       | Rhea Reid                         | 76   | .50 .60      |
| General McArthur             | 76   | .35 .50       | Richmond                          | 76   | .35 .50      |
| General Jacqueminot          | 76   | .35 .50       | Rose Rugosa, white or red         | 80   | .35          |
| George Dickson               | 77   | 1.50          | Safrafo                           | 79   | .35 .50      |
| Glorie de Dyon (Clb.)        | 81   | .35 .50       | Souv. de Pierre Notting           | 78   | .35 .50      |
| Glorie de Margottin          | 76   | .35 .50       | Souv. de Fres. Carnot             | 78   | .35 .50      |
| Glorie Lyonnaise             | 75   | .35 .50       | Soleil d'Or                       | 78   | .35 .50      |
| Gold Finch                   | 80   | .35 .50       | Sunburst                          | 79   | 1.00         |
| Grusse An Teplitz            | 76   | .35 .50       | Sunset                            | 79   | .40 .60      |
| Hiawatha                     | 80   | .35 .50       | Standard or Tree Roses            | 80   | 1.00 to 1.50 |
| His Majesty                  | 76   | 1.25          | Tausendschon—Thousand Beauties    | 80   | .35 .50      |
| Hugh Dickson                 | 76   | .35 .50       | Tree Roses                        | 80   | 1.00 to 1.50 |
| J. B. Clark                  | 76   | .35 .50       | Ulrich Brunner                    | 76   | .35 .50      |
| Jonkeer J. L. Mock           | 77   | .60 .75       | Vicomtesse Folkstone              | 75   | .35 .50      |
| Joseph Hill                  | 77   | .60           | Warrier                           | 77   | .75          |
| Juliet                       | 77   | 1.00          | White Killarney                   | 74   | .35 .50      |
| Kaisserin Aug. Victoria      | 75   | .35 .50       | White La France                   | 75   | .35 .50      |
| Killarney                    | 75   | .35 .50       | White Maman Cochet                | 75   | .35 .50      |
| Lady Battersea               | 76   | .35 .50       | Weeping Tree Roses                | 80   | 1.50 to 2.00 |
| Lady Gay                     | 80   | .35 .50       | Winnie Davis                      | 78   | .35 .50      |
| Lady Hillingdon              | 79   | .75 1.00      | William A. Richardson (Clb.)      | 81   | .35 .50      |
|                              |      |               | Wichurian Alba and Rubra          | 80   | .35          |

**DOZEN PRICES.**—We give you our 35c SELECT TWO-YEAR-OLD Bushes at \$3.00 doz.; our 40c and 50c EXTRA SELECT AT \$4.00 DOZ. We can supply the ordinary grade of 25c bushes at \$2.50 doz. FOR ONE-YEAR MAIL-ORDER SIZE SEE PAGE 8.

### SHIPPING AND DELIVERY

We can fill orders for our large two-year rose bushes any time from October to May—the best months are November, December, January, February and March.

**BY FREIGHT OR EXPRESS.**—We always send our 2-year-old rose bushes by express or freight, packing them so they will ship safely, even though they should be on the road for two weeks or more.

**BY MAIL.**—If necessary, we can send small 2-year-old bushes by mail at an additional cost of 10c each or 75c per dozen, to cover postage and packing, but in such cases we always prune the tops and roots, ready for planting, as they carry safer.

**TRUE TO NAME.**—We guarantee all roses true to label to the extent that we will replace FREE OF CHARGE any that may prove otherwise. If the varieties of the roses ordered cannot be supplied or bought locally, others equally as good or better and correctly labeled will be substituted, UNLESS OTHERWISE ORDERED.

## For your convenience—Classification under colors

This year we have arranged our roses all under their predominating color, which appeals to us as the most convenient way. While the descriptions are necessarily short on account of limited space, you will get class, color and main points of merit. We have tried to eliminate all out-of-date and inferior sorts. If you want roses for hedging or special beds for certain effects, we will gladly make selections for you or give you our opinion.

NOTE—Alphabetical Index of all varieties with prices on preceding page.



Portland's Official Rose

### "MAD. CAROLINE TESTOUT."

Healthy grower, profuse bloomer. Finest Pink. See page 75.

## WHITE ROSES.

**FRAU KARL DRUSCHKI (H. P.).**—This magnificent variety has taken first prize at all the great flower shows in Europe and America, and is undoubtedly one of the grandest, hardy, pure-white roses ever introduced. Makes splendid buds and immense flowers; vigorous grower, and a constant and abundant bloomer. A splendid variety for hedges.

Each 25c, 35c and 50c

**WHITE KILLARNEY.**—A vigorous growing hybrid tea of recent introduction. Its long, pointed buds, excellent substance and delicious odor recommend it to every lover of the rose. Color: white, lightly suffused with pale pink. Each 35c and 50c

**BRITISH QUEEN (H. T.).**—Pure white large full flowers of exquisite form, opening freely in all weathers; promises to be one of the best white roses for bedding and cutting. Surpassing "Druschki" in beauty of form and purity. Each \$1.25

**MRS. FOLEY HOBBS.**—A veritable giant among Tea Roses. The huge thick shell-shaped petals produce a bloom of grand size and build, while the length of stems are remarkable. Color delicate ivory white delicately tinged pink on edge of petals. Delicately scented. A grand bedding rose. Gold Medal N. R. S. Each \$1.00

**DOZEN PRICES.**—We give you our 35c SELECT TWO-YEAR-OLD Bushes at \$8.00 doz.; our 40c and 50c EXTRA SELECT AT \$4.00 DOZ. We can supply the ordinary grade of 25c bushes at \$2.50 doz. FOR ONE-YEAR MAIL-ORDER SIZE SEE PAGE 8.

**White** Showing some Cream or Pink.

**GLOIRE LYONNAISE** (H. T.)—Color chamois yellow; deepest at the center, passing to creamy white; large, full, sweet and very distinct.

Each 25c, 35c and 50c

**FLORENCE PEMBERTON** (H. T.)—Creamy white, suffused pink; the edge of the petals occasionally flushed peach; flowers very large and full, of perfect form; one of the finest roses.

Each 40c, 50c and 60c

**KAISSERIN AUGUSTA VICTORIA** (H. T.)—A beautiful rose, with elegant, large, pointed buds, and very large, full double flowers; color delicate creamy white; deliciously fragrant. The plant is a strong, healthy grower and constant bloomer; one of the choicest and most trustworthy garden roses; very popular.

Each 25c, 35c and 50c

**MILDRED GRANT** (H. T.)—Moderate, silvery white, shaded peach; blooms large with high pointed center; not a very free grower, but so beautiful that every collection should include it.

Each 50c and 60c

**VISCOUNTESS FOLKSTONE** (H. T.)—Flowers borne on strong stems, with thick foliage; color delicately tinted flesh, almost white, with beautiful satin finish.

Each 35c and 50c

**WHITE LA FRANCE** (T.)—This magnificent Rose is white, tinted blush; buds and flowers are extra large, very full and finely formed.

Each 35c and 50c

**WHITE MAMAN COCHET** (T.)—The name describes this new Rose—pure white, grand substance; immense size, exquisitely fragrant and a free bloomer; buds long and pointed; very popular.

Each 35c and 50c

**Light Pink**

**ADMIRAL DEWEY** (H. T.)—Of large size and sterling merit. A sport of Mad. Caroline Testout, and superior to that sort in many ways. The ground color is a light flesh tint, almost white, suffused with a beautiful blush, deepening to a rosy blush in the center.

Each 35c and 50c



Frau Karl Druschki.

Baker, Ore., April 9, 1913.

Routledge Seed & Floral Co.

Dear Sirs: I was so pleased with the roses and the excellent condition I received them in last summer. I am now sending for another dozen which I trust will receive the same prompt attention.

Yours truly,

MRS. O. B. MOUNT.

**BELLE SIEBRECHT** (H. T.)—A true, solid pink of the richest shade; a rare color; sweetly perfumed; large, beautifully formed, of long, tapering shape; when half-blown the petals reflex in a graceful manner.

Each 35c and 50c

**KILLARNEY** (H. T.)—A strong, robust grower and abundant bloomer; both buds and flowers are large; color brilliant sparkling pink, and delightfully sweet; a great favorite wherever shown.

Each 35c and 50c

**LA DETROIT** (H. T.)—A beautiful shell pink, shaded; a vivid rich color and fascinating; delightful tea fragrance. In form it is large, cup-shaped; petals shell-like; rich, glossy foliage; a rampant, vigorous grower, producing long shoots.

Each 35c and 50c

**LA FRANCE** (H. T.)—Perhaps no rose is better known or more highly valued than La France; both flowers and buds are of grand size; color a silvery pink; a general favorite.

Each 25c, 35c and 50c

**LADY URSULA** (H. T.)—Truly magnificent, of vigorous, erect growth and free-blooming qualities. Flowers are very large, full and of great substance and perfect form, with high center, from which the petals gracefully reflex; color a delightful shade of flesh pink; delicately tea scented.

Each 50c and 60c

**MADAME CAROLINE TESTOUT** (H. T.)—Probably no rose stands higher in public estimation today than this elegant Rose. It is a vigorous, healthy grower and profuse bloomer. Has no equal for massing or hedging. The petals are large, of elegant form, brilliant pink, exquisitely edged and bordered with clear, silvery rose; both flowers and buds are extra large and of very elegant form:

Each 25c, 35c and 50c

**MRS. JOHN LAING** (H. P.)—Very free flowering, early and late; color a soft, delicate pink, with satiny tinge.

Each 35c and 50c

## Dark Pink or Rose

**BARONESS ROTHCHILD** (H. P.).—Large size, fine globular form; color bright, rosy pink.  
Each 35c and 50c

**CAPTAIN CHRISTY** (H. P.).—Color a lovely shade of pale peach; deepening at the center to a rosy pink.  
Each 35c and 50c

**CECILLE BRUNNER**.—Dwarf Polyanthus. Exquisite little roses, dainty and pointed in the bud, bright rose showing yellow in the center.  
Each 35c and 50c

**MAGNA CHARTA** (H. P.).—Bright rosy pink; full, globular flowers; very large and double.  
Each 35c and 50c

**MAMAN COCHET** (T.).—This is one of the most beautiful Tea Roses we list; extensively planted and very popular; the color is a deep, rosy pink, the inner name of petals silvery rose.  
Each 35c and 50c

**MAD. MAURICE DE LUZE** (H. T.).—One of the most satisfactory roses of its color; it has splendid large cupped flowers, with heavy petals of a live, rich, rose-pink, with carmine center, the reverse of the petals shading lighter; a vigorous grower, free-flowering and very fragrant.  
Each 75c

**PAUL NEYRON** (H. P.).—Deep, shining rose, double and handsomely formed; blooms freely and is unusually strong and vigorous; the largest variety in existence.  
Each 25c, 35c and 50c

## Scarlet—Bright Red

**AMERICAN BEAUTY** (H. P.).—It is a quick grower, constant bloomer, making magnificent buds and large, bold flowers; color rich, rosy red, shaded in the most charming manner.  
Each 50c and 60c

**GENERAL JACQUEMINOT** (H. P.).—Bright shining crimson scarlet; very rich and velvety; exceedingly brilliant and handsome; one of the best and most desirable for open ground.  
Each 25c, 35c and 50c

**GENERAL McARTHUR** (H. T.).—Color, brilliant scarlet; one of the most fragrant of the June scented roses and a true ever-blooming; a perfect garden rose.  
Each 35c and 50c

**GRUSS AN TEPLITZ** (H. P.).—Color fiery scarlet, with a dark, velvety sheen; very fragrant; the freest blooming rose in existence; the mass of color produced is wonderful.  
Each 25c, 35c and 50c

**LADY BATTERSEA** (Red Nipheta) (H. T.).—Long, oval, pointed buds; the color is a bright, cherry crimson; an unusually showy variety.  
Each 35c and 50c

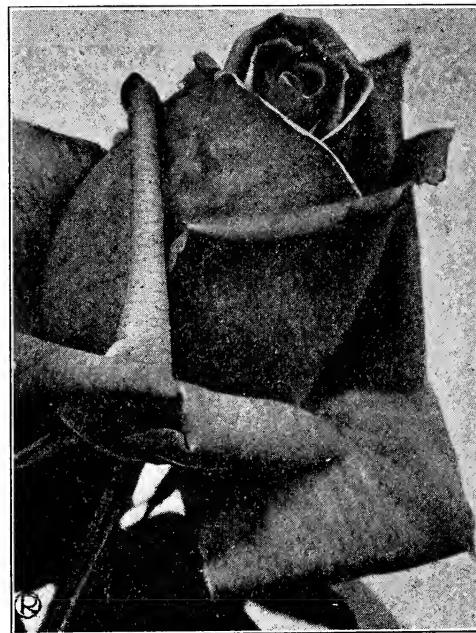
**PAPA GONTIER** (T.).—Large and semi-double; a vivid cherry red color, shaded yellow; reverse of petals crimson. Prized highly for its beautiful pointed buds.  
Each 35c and 50c

**RHEA REID** (H. T.).—A new Rose, highly spoken of; as large as American Beauty, as double as Bridesmaid, as fragrant as La France, as red as Richmond; certainly grand.  
Each 50c and 60c

**RICHMOND** (H. T.).—A splendid new American Rose of great merit; strong in growth; splendid foliage and long stems; color a magnificent, rich scarlet-crimson; the most vivid we have yet seen among ever-blooming roses; profuse bloomer.  
Each 25c, 35c 50c

**ULRICH BRUNNER** (H. P.).—This is really a magnificent rose; extra large, bold flowers, full and globular; petals large and of good substance; color rich, glowing crimson, elegantly flamed with scarlet; a good grower and free bloomer.  
Each 25c, 35c 50c

**J. B. CLARKE** (H. T.).—New Irish variety of great merit, either for garden decoration or for cut flowers. The color is bright scarlet; petals large, shell-shaped and of immense substance; flowers very large, full and perfectly formed; growth vigorous and free-branching habit; flowering freely and continuously from early in summer until late in autumn.  
Each 35c and 50c



George Dickson.

## Crimson—Deep Red

**AVOCA**.—Brilliant velvety crimson with large smooth petals and high pointed center, free and vigorous.  
Each 50c and 60c

**CHATEAU DE CLOS VOUGEOT** (H. T.).—A very rich, fiery scarlet shading to deep velvety crimson; immune from black spot and mildew. The flowers are large, full and globular and are borne singly on good stems. It is delightfully fragrant, a prolific and continuous bloomer.  
Each 75c

**ETOIL DE FRANCE** (H. T.).—Of vigorous, healthy growth; beautiful buds and flowers; full and fragrant; color rich, glowing crimson, shaded with vermillion.  
Each 35c and 50c

**FRIEDRICHSRUH** (T.).—Blood-red, large, full, of perfect form, and flowers continuously; excellent habit of growth. Awarded gold medal at Dusseldorf. A valuable addition to the tea section.  
Each 75c

**GLOIRE DE MARGOTTIN** (H. P.).—A good, healthy grower; flowers extremely brilliant, almost scarlet; live and lasting; large, full, globular, of good shape; pretty in bud, extremely beautiful.  
Each 35c and 50c

**HUGH DICKSON** (H. P.).—Brilliant crimson, shaded scarlet; good size and fine form; petals slightly cupped and reflexed; highly perfumed.  
Each 35c and 50c

**HIS MAJESTY**.—Dark crimson, shaded vermillion crimson, flowers full, and of great size, with wonderful substance. Awarded a Gold Medal by the N. R. S.  
\$1.25

**LIBERTY** (H. T.).—Color rich, fiery ruby, shaded deep crimson; fragrance exquisite; without doubt one of the finest ever-blooming roses in existence.  
Each 50c and 60c

## Dark Red

**BARON DE BONSTETTIN (H. P.).**—Splendid, large flowers, very double and full; rich, dark red, passing to deep dark, velvety maroon.

Each 35c and 50c

**GEORGE DICKSON (H. T.).**—Very strong and vigorous, upright growth, flowers of the largest size; perfect in shape and unique in color, being a velvety blackish crimson with the back of the petals heavily veined with pure crimson maroon. Delightfully scented.

Each \$1.50

**PRINCE CAMILLE DE ROHAN (H. P.).**—Very dark, rich, velvety crimson, passing to intense maroon, shaded black; one of the darkest roses and very handsome.

Each 35c and 50c

**WARRIOR (H. T.).**—Blood-red in bud opening to scarlet crimson; fine form, fragrant. Price 75c

Sherwood, Ore., July 8, 1913.

Routledge Seed & Floral Co.

Gentlemen: I am more than pleased over the Roses I received of you last year, and they are just blossoming fine and I am sending in another order for Roses and Bushes.

Thanking you for attending my order so perfectly, I am,

Yours truly,  
MRS. ABBO PETERS.

## Distinct Varieties

### COMBINATIONS OF YELLOW, ORANGE, PINK AND RED

The following varieties and colors are certainly beautiful and much sought after.

**BETTY (H. T.).**—Introduced by Messrs. Dickson & Sons, Belfast, Ireland, and regarded by them as the grandest of the many valuable and new roses of merit which they have originated; a robust grower and of a unique color, being of a ruddy gold, overspread with golden yellow; deliciously perfumed; large and of glorious form; blooms continuously.

Each 40c and 50c

**CARINE (H. T.).**—(A. Dickson & Sons.) Coppery salmon shaded orange, carmine buff and fawn. Phases of color too intricate to describe. Long, elegant buds on rigid stems. Imperfect flowers are a rarity. Ideal decorative and massing rose. Absolutely distinct.

Each \$1.50

**DEAN HOLE (H. T.).**—An exquisitely beautiful rose, of bright carmine pink color, with silvery shadings and with the grandeur of American Beauty in form and foliage; a fine grower, free in bloom; extra fine.

Each 35c and 50c

**DOROTHY PAGE ROBERTS (H. T.).**—Coppery pink, suffused with apricot yellow, very free and profuse bloomer, a delightful garden rose.

Each 50c and 60c

**ELIZABETH BARNES (H. T.).**—Satinly salmon rose with fawn center, suffused yellow, outside of petals rosy red, tinted copper and yellow; flowers large, full and freely produced.

Each 60c

**JOSEPH HILL (H. T.).**—Vigorous; beautiful clear salmon pink. Outside of petals shaded pink, orange and copper; bloom large, full and perfect form.

Each 60c

**JONKEER J. L. MOCK (H. T.).**—A magnificent and unique Rose. Inside of petals red, outside silvery blush white. Of fine form, good substance and largest size. A strong, rapid grower. This rose has been awarded eight prizes at the recent European shows.

Each 60c and 75c

**JULIET (Wm. Paul & Son, 1910).**—This beautiful variety has attracted great attention in England during the past two seasons, and when better known is certain to become as popular with us. It is a most distinct and attractive novelty, with large, perfect flowers. The outside of the petals is old gold, the interior rich rosy-red changing to deep rose as the flowers expand; of powerful, delicious fragrance; greatly admired.

Each \$1.00

**LADY ROBERTS (T.).**—Vigorous; apricot yellow, base of petals coppery red, edges shaded orange; very beautiful.

Each 50c

**LYON ROSE (H. T.).**—The flowers are of a superb shrimp pink color, with salmon and chrome yellow shadings, beautiful beyond description; large buds, magnificently formed; petals elegantly formed and large; flowers full, very large and on stiff stems. Bound to become one of the best known varieties.

Each 50c and 60c

**MARQUIS DE SINETY (H. T.).**—Golden orange, shading to fiery red, large double flowers, of good form, very beautiful and attractive. A splendid garden rose for summer blooming; vigorous and hardy. One of the grandest of the new roses.

Each 60c and 75c

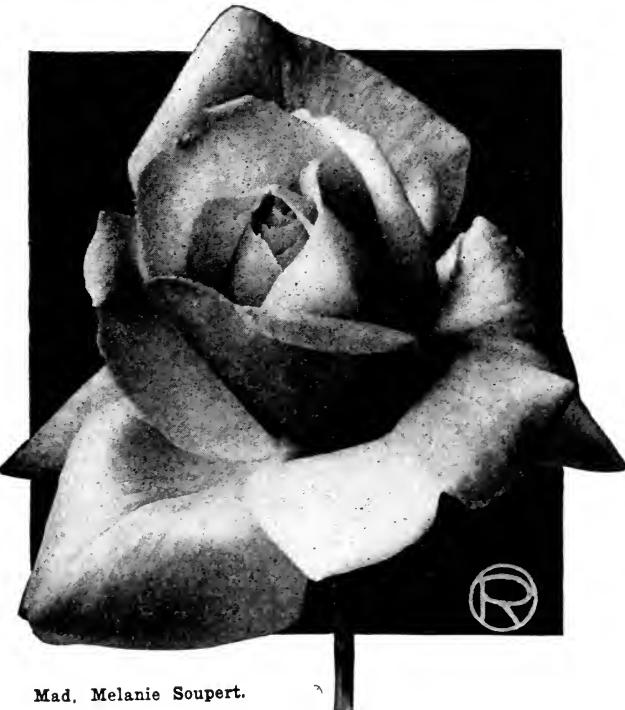
**MAD. RAVARY (H. T.).**—Vigorous; salmon fawn, often golden orange; free and continuous bloomer; a fine rose.

Each 50c

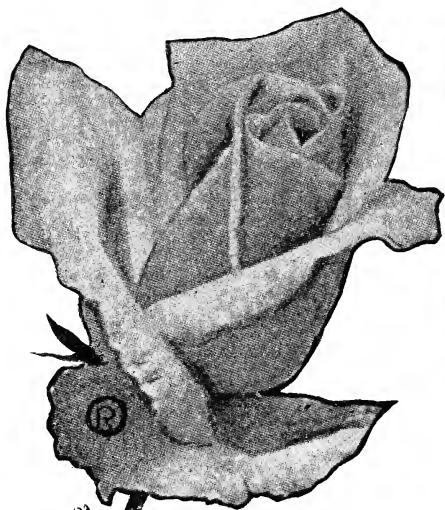
**MAD. MELANIE SOUPERT (H. T.).**—Vigorous, saffron yellow suffused with carmine and pink, very large, free blooming, and one of the most beautiful and distinct sorts. A great favorite. (See cut.)

Each 50c and 60c

For Rose Stakes, Sprays, Pruners, Fertilizer, Etc., see index, page 3.



Mad. Melanie Soupert.



Lady Hillingdon.



Mrs. Aaron Ward

## Combinations of Yellow, Orange, Red or Pink—Continued.

**MAD. SEGOND WEBER (H. T.)**—A magnificent light rosy salmon. Buds long and pointed that expand into flowers of immense size. In its particular color there is nothing to touch it. It blooms with remarkable persistence, and it is unusual to see an imperfect bud or flower. As a cutting rose it is of premier quality. Each 50c and 60c

**MRS. AARON WARD (H. T.)**—This Rose is a real joy to the grower and absolutely distinct. One of the most delightful Roses of recent years in a color that catches the eye at once. Coppery-orange in the open bud, golden-orange when partly developed, pinkish-fawn of lovely shade when fully open, when it looks like a full fluffy-silk rosette. No wonder everybody that sees it falls in love with it; one of the most beautiful roses in existence. Each 60c and 75c

**MRS. A. WADDELL (H. T.)**—A lovely new color; deep reddish apricot toned with salmon. Same form as Papa Gontier, but with much longer buds. It is a vigorous grower and constant bloomer, and incidentally a wonderful advance in Roses approaching this color. Each 60c and 75c

**MY MARYLAND**.—The vigorous growing and free blooming habit of this Rose is little less than marvelous. The flowers are somewhat globular in form, very full with shell-shaped petals of waxlike texture. The color is a bright glowing pink, each petal being shaded lighter at its base. We know of no Rose which produces fine flowers so freely as does this sort. Very hardy and apparently immune from disease. Each 50c and 60c

**MISS KATE MOULTON (H. T.)**—Beautiful salmon-peach pink, delicately shaded; buds long and pointed; foliage good; free bloomer. Each 50c and 75c

**SOLEIL D'OR, OR GOLDEN SUN (H. P.)**—A superb color varying from orange-yellow to reddish-gold, shaded with Nasturtium-red; large, full, double flowers; a strong grower. Each 35c and 50c

**SOUV. DE PRESIDENT CARNOT (H. T.)**—Of extraordinary beauty, very large, full, deep and deliciously sweet; lovely shell pink, delicately tinted with golden fawn on rich, creamy white; superb. Each 35c and 50c

**SOUV. DE PIERRE NOTTING (T.)**—Very large, perfectly full; of elegant form; has a beautiful, long bud; color orange-yellow, bordered in carmine rose. Each 50c

**WINNIE DAVIS (H. T.)**—A fine new American pedigreed Rose. Color, rich apricot pink, shaded to flesh at base of petals. Beautifully formed buds and flowers; very free in growth and bloom. Each 35c and 50c

**DOZEN PRICES.**—We give you our 35c SELECT TWO-YEAR-OLD Bushes at \$3.00 doz.; our 40c and 50c EXTRA SELECT AT \$4.00 DOZ. We can supply the ordinary grade of 25c bushes at \$2.50 doz. **FOR ONE-YEAR MAIL-ORDER SIZE SEE PAGE 8.**

Des Moines, Iowa, May 1, 1913.  
Routledge Seed & Floral Co.

Gentlemen: Have intended writing you before this to say I received the Roses and Dahlia bulbs and to thank you for the fine selection you sent me. The roses were wonderful looking plants, and so many of them. Thanking you again, I am,

Truly yours,  
MRS. G. B. HIPPER.

Des Moines, Iowa, July 1, 1913.  
Routledge Seed & Floral Co.

Gentlemen: Enclosed find check for \$36.50. The Pink Petunias came and I think them very, very beautiful. The roses are doing well, also the Dahlias.

MRS. G. B. HIPPEE.



Le Progress.

## The Best Yellow Roses

**ANNA OLIVER** (T.)—A superb free-blooming rose. One of the best roses for general cultivation, succeeding in almost any situation. The flowers are double, extra large, and of splendid substance; color creamy yellow, shaded with blush and edged with silver-rose; very fragrant. Each 50c

**FRED HARMS** (H. T.)—The beautiful large orange yellow flowers are borne on long stiff stems; free flowering. Catalogued by some as Yellow Kalserin. Each 75c

**FURST BISMARCK** (H. T.)—One of the most desirable yellow roses. Strong, healthy grower; a beautiful canary yellow. Price 60c and 75c

**LADY HILLINGDON** (T.)—Deep apricot yellow. long and pointed bud, a fine forcing or garden rose, excellent for cutting. Flowers are of good substance, very lasting and foliage handsome and luxuriant. Lady Hillingdon is considered the best decorative rose in its class. This aristocratic beauty is a seedling from Papa Gontier and Madame Hoste. Each 75c and \$1.00

**LE PROGRESS**.—Nankeen yellow bud, opening to saffron yellow. Flowers large and full, of fine size and build, on long erect stalks clothed with beautiful green foliage. Always in bloom. One of the finest sorts for garden decoration. Very popular in England where it is grown extensively. It should become popular in our Pacific Northwest gardens. Each 50c and 60c

**MADAME HOSTE** (T.)—Creamy yellow, with deep buff yellow center; very large and delicately sweet; a constant and profuse bloomer; one of the finest sorts in cultivation. Each 35c and 50c

**MARIE VAN HOUTTE**.—Of a fine, straw-yellow color; outer petals washed and shaded with a bright rosy carmine; occasionally the whole flower will be suffused with light pink. Each 35c and 50c

**MELODY**.—New Irish rose. A magnificent golden yellow hybrid tea. A new product of the famous rosarians, Alexander Dickson & Sons, who describe this wonderful rose as being of a "lovely shade of yellow, deepening to apricot in the center, perfect in form and very double, one of the handsomest yellow roses, and as a garden rose cannot be surpassed. The bush is hardy, vigorous and constantly in bloom." Each \$1.50

**PERLE DES JARDINS** (T.).—Beautiful, clear, golden yellow, entirely distinct from any other variety. Each 25c, 35c and 50c



Rayon d'Or.

**RAYON d'OR**, or **GOLDEN RAYS** (Pernet Ducher, 1910).—A gorgeous new golden-yellow rose. A vigorous, strong grower, with glossy foliage, which appears immune to the attacks of mildew. Flowers large, of globular form, color beautiful yellow as the buds begin to expand, toning to golden-yellow as they fully develop; a superb rose. Each \$1.00

**SAFRANO** (T.).—Bright apricot yellow, tinged orange and fawn; valued highly for its beautiful buds; very profuse in bloom, and deliciously tea scented. Each 35c and 50c

**SUNSET** (T.).—This grand rose is a favorite wherever known; the color is a rich, golden amber, or old gold, elegantly shaded, and buds are extra large, full, finely formed and deliciously perfumed. Each 40c and 60c

**SUNBURST** (H. T.).—This new variety is a veritable giant among yellow roses, throwing up heavy canes clothed with most ornamental foliage and crowned with immense buds and flowers. The buds are very long and of the most beautiful form, opening into a gorgeous colored flower. The color is a rich cadmium yellow shaded orange yellow. Each \$1.00

Woodland, Wash., June 19, 1913.  
Routledge Seed & Floral Co.

Dear Sirs: I take pleasure in stating to you that the Rose Bushes and Shrubbery you sent me on my order are now all blooming, and doing fine, and I am well pleased with them, especially the American Beauty tree rose. She had eighteen beautiful roses, the first budding, and we are very proud of our yard, which I consider is a first class recommend for your stock.

R. E. NEAL.



Perle Des Jardins.

## Moss Roses

Strong, vigorous growers, much admired for moss-covered buds; hardy; most varieties bloom but once in a season, but remain for a long time and very handsome. Price 35c each

**CRESTED**.—Deep pink buds, surrounded with mossy fringe; very beautiful and free from mildew.

**BLANCH MOREAU**.—Best pure white.

**CHAPEAU DE NAPOLEON**.—A good red.

## Standard or Tree Roses.

Prices, \$1.00 to \$1.50 each, according to size and shape of head.

Tree Roses are budded or grafted on hardy rose stocks, about four feet high. They soon make good-sized heads, forming a small tree, especially desirable for planting as single specimens, in backgrounds or rows along walks or driveways.

Not all varieties are obtainable, but order any color or variety you wish, and we will send it or give you as good a substitute in same color as possible.

## Weeping Tree Roses

These are produced by budding the trailing varieties on four or five-foot standards. They are very showy and quite a novelty. \$1.50 to \$2.00 each

## Rugosa Roses

These have glossy green foliage and clusters of beautiful, fragrant single flowers. During the autumn and winter they are covered with their large, brilliant, attractive red seed pods.

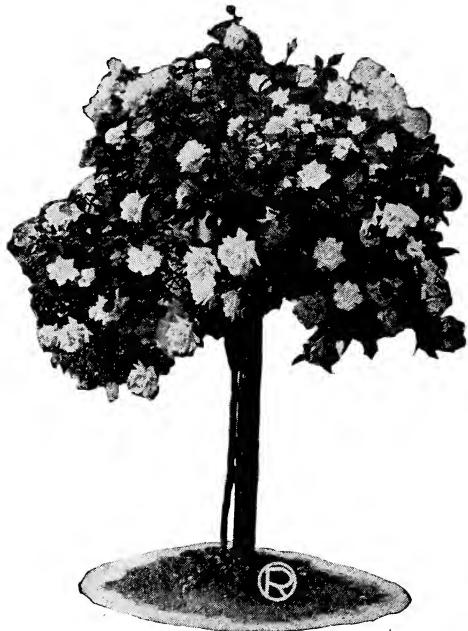
WHITE OR RED. 35c each; \$3.00 dozen

## Wichurian Roses

**MEMORIAL ROSE.**—The flowers are single. Perfectly hardy and very desirable for creeping over walls or rockwork.

WHITE OR RED.

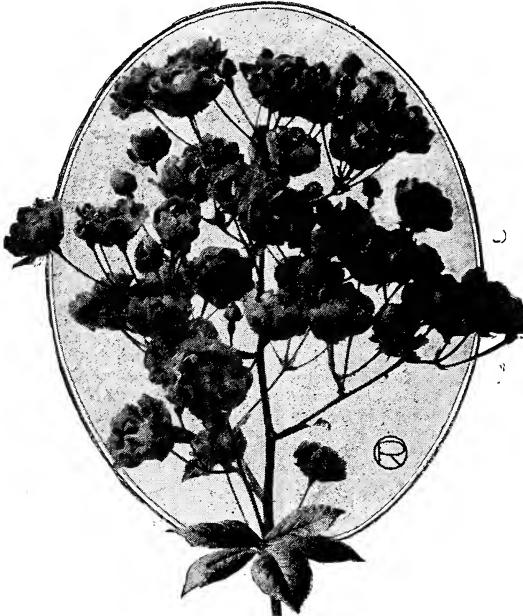
35c each; \$3.00 dozen



Tree Rose—Frau Karl Druschki.

## RAMBLER OR PILLAR ROSES

The following climbing roses all grow vigorously, and are profuse bloomers. The flowers are borne in large clusters. They all belong to the polyanthus class, or more commonly known as the Ramblers.



Flower of Fairfield.

**CRIMSON RAMBLER.**—A charming, hardy pillar rose. The flowers grow in great pyramidal panicles, each carrying 30 to 40 blooms; a bright, vivid crimson; a very vigorous grower.

Each 25c, 35c and 50c

**DOROTHY PERKINS.**—New; beautiful shell pink; flowers in immense clusters; quite full and double; healthy and vigorous. Each 25c, 35c and 50c

**TAUSENDSCHEIN** Thousand Beauties.—Entirely distinct, not only in Ramblers, but in climbing roses generally. The individual flowers are very large for this type of rose, being fully 3 inches across, of a most elegant and graceful form, and as beautiful as a semi-double Azalea. A most delightful shade of soft pink when first opening, changing to carmine on the reverse of petals when fully expanded. These are produced in trusses of from 10 or 15 flowers, each truss a veritable bouquet. It is a rampant grower, very healthy with magnificent foliage.

Each 35c and 50c

**FLOWERS OF FAIRFIELD.**—A perpetual flowering "Crimson Rambler"; this has long been looked for and is undoubtedly one of the most valuable additions to this section since its introduction. The flowers are brighter than the original, and are produced in great profusion from early summer to late autumn; most valuable rose.

Each 35c and 50c

**GOLDFINCH.** (New).—A new yellow rose from Europe and claimed to be of superior merit; belongs to Rambler family. Each 35c and 50c

**HIAWATHA.**—It must be seen to be appreciated. Its flowers are about 1½ inches across, and produced in long, pendulous sprays, with frequently from 40 to 50 flowers on a spray. In color it is brilliant ruby-carmine, with a clear white eye and a mass of golden stamens—a glowing combination of colors, which can be seen at a great distance; of vigorous growth, with bright green, glossy foliage, which is retained until late in fall.

Each 35c and 50c

**LADY GAY.**—Of vigorous growth, with flowers of a delicate cerise-pink, passing to soft tinted white. The effect of a plant in full bloom with the combination of the soft white flowers, cherry-pink buds, and the deep green of the foliage is indeed charming.

Each 35c and 50c

**DOZEN PRICES.**—We give you our 35c SELECT TWO-YEAR-OLD Bushes at \$3.00 doz.; our 40c and 50c EXTRA SELECT AT \$4.00 DOZ. We can supply the ordinary grade of 25c bushes at \$2.50 doz. FOR ONE-YEAR MAIL-ORDER SIZE SEE PAGE 8.

## Rambler or Pillar Roses—Continued

**VERLCHENBLAU** (Blue Rambler).—Has attracted much attention in Europe and America, and is the first rose of its color ever produced. This is a vigorous climber, flowers medium size, semi-double, borne in large clusters; color on opening is a rosy lilac, quickly changing to a metallic blue; has splendid foliage of a rich green color.

Each 35c and 60c

**WHITE RAMBLER** (Thalia).—Flowers pure white, sometimes faintly tinged blush; flowers borne in immense clusters; very vigorous.

Each 25c, 35c and 50c

**WHITE DOROTHY**.—In this grand new Rambler we at last have a hardy white climbing Rose which will grow in any part of the country under adverse conditions and one which will rank up with Crimson Rambler and Dorothy Perkins as a pillar and porch Rose. As its name indicates, it is a sport from Dorothy Perkins, possessing all the fine qualities of that grand variety, but having pure snow-white flowers. This Rose, we believe, will become a fixture in the list of climbing roses.

Each 40c and 60c

**YELLOW RAMBLER** (Aglaia).—Strong grower, profuse bloomer.

Each 25c, 35c and 50c

## Climbing Roses. Hardy, Large Flowering

The lavish profusion of bloom on climbing Roses, literally hundreds of flowers on each plant, their beautiful colors and exquisite fragrance render them unequalled for covering houses, arbors, pergolas, fences and boundary walls. Every home should have a few of these climbing Roses gracing its porches and corners, which will in time reach to second-story windows and bring much enjoyment to their owners, as well as being the admiration of all who see them in bloom.



Climbing Papa Gontier.

**BEAUTY OF GLAZENWOOD**.—Bronze yellow or copper and fawn color. One of our grandest climbing roses. Very hardy and a free bloomer. Very popular all over the Pacific Coast and deservedly so, for there is no finer free-growing climbing rose in existence. Also known as the San Rafael and Gold of Ophir in California.

Each 40c and 60c

**CLIMBING KAISERIN** (Mrs. Robt. Peary).—Flowers fine ivory white; a grand addition to our list of climbing roses.

Each 50c

**CLIMBING MADAME CAROLINE TESTOUT**.—The greatest acquisition to our list of climbing roses for a number of years. Covered during the season with immense globular flowers of the same beautiful shade of pink as seen in the bush sort. Without doubt the finest pink climbing rose to date. Is being planted freely in all Pacific Coast states.

Each 40c and 50c

**CLIMBING METEOR**.—Very free flowering producing all through the growing season its rich, dark, velvety crimson flowers, perfectly double.

Each 40c and 50c

**CLIMBING PAPA GONTIER** (T.).—Same as the old favorite bush Papa Gontier, having the same splendid, cherry-red flowers, but of a strong climbing habit of growth.

Each 60c and 75c

**CLIMBING WOOTTON**.—A climbing variety of this fine red Rose that is bound to be very popular. It is a very strong, rapid grower, throwing long canes and bearing large clusters of true Woottons.

Each 40c and 50c

**CLIMBING SAFRANO** (Reve de Or).—A strong climber; color orange yellow, or deep saffron; good size, full and sweet.

Each 35c and 50c

**CLIMBING FRAU KARL DRUSCHKI**.—Grand flower, pure white, identical with the bush type. Free blooming and extremely hardy; has vigorous climbing habit.

Each 60c and 75c

**GLOIRE DE DIJON**.—Noted for the great size of its flowers, its delicate tea scent, and its shades of color, being a blending of amber, carmine and cream; a magnificent climber.

Each 35c and 50c

**MADAM ALFRED CARRIERE**.—Extra large, full flowers; very double and sweet, and a most profuse bloomer; color rich, creamy white, faintly tinged pale yellow.

Each 35c and 50c

**MARECHAL NEIL**.—A magnificent, deep golden yellow variety; so famous as to need no description; grown the world over for its immense yellow flowers; the finest rose of its color in existence.

Each 35c, 50c and 75c

**REINE MARIE HENRIETTE**.—Vigorous grower; flowers large, full; color glowing crimson; elegantly shaded.

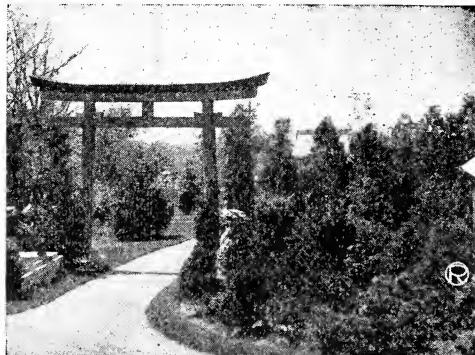
Each 35c and 50c

**WILLIAM A. RICHARDSON**.—Color rich, coppery yellow, flushed with carmine; a very beautiful variety, having few equals.

Each 35c and 50c

## SHADE, NUT AND ORNAMENTAL TREES AND SHRUBS

**HARDY FLOWERING SHRUBS.**—There is nothing which so quickly, and for so little cost, adds so much to the beauty, cheerfulness and homelike appearance of a place as an assortment of hardy shrubs. They are permanent improvements, which increase in size, value and beauty year after year.



Space in this catalog will not permit us to illustrate and describe the following stocks as we would like to, but if you live in the vicinity of Portland or some town where we have an experienced salesman, we will gladly have him call on you. Our salesmen carry handsomely colored plate books and photographs of all our leading stocks. These books are very interesting, and we would like to show them to you if possible.

### LANDSCAPE ARCHITECTS AND GARDENERS

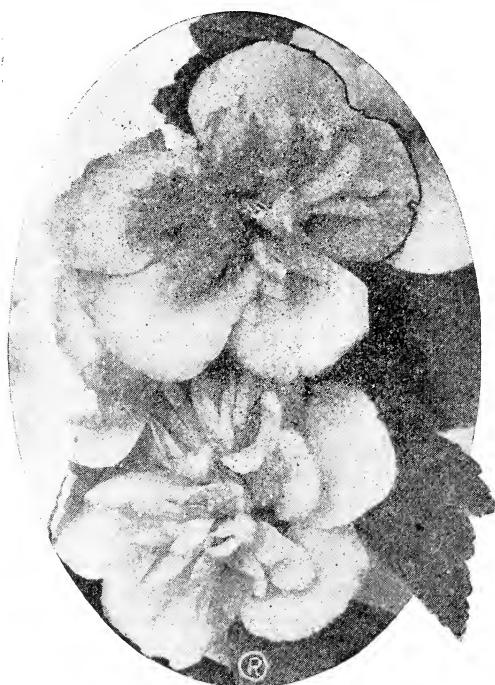
We are in close touch with the best landscape architects and gardeners in the West, and no matter how small or how elaborate a garden, lawn or park you want laid out, we will put you in touch with an artist equal to the occasion, if you give us an idea of what you want. This is free service to our customers. You make your own arrangements with the person sent, as to plans, labor, etc.

### FOR YOUR GUIDANCE

To make it more convenient for the average person to find certain stocks, we will list in alphabetical order all Shade. Nut and Ornamental Trees and Shrubs (climbing plants excepted), and use the following letters after the name to classify them.

**D—Deciduous—**Trees and Shrubs that drop their foliage in fall and winter

**E—Evergreens—**These retain their foliage year around



Althea (Rose of Sharon) Flower

**ACER.**—See Maples.

**ACUBA (E).**

**Japonica.**—Beautiful, broad leaved evergreen, with leaves speckled and striped golden yellow; elegant shrub for specimen on the lawn or for planting among other shrubbery; bears bright red berries in winter time.  $1\frac{1}{2}$  to 2 feet, \$1.25 to \$3.00

**ALMOND (D)—Nut Bearing.**—Almonds can be grown successfully in many sections of Oregon and Washington, and are attracting much attention from commercial orchardists. We can supply most of the leading varieties at price listed. Special prices on large orders. Selected Trees 4 to 6 feet, each 50c to 75c.

**I, X, L.**—A vigorous grower and sure cropper producing nuts of large size and handsome appearance; shell thin; most popular commercial sort.

**Hard Shell.**—A fine, hardy variety, with large, plump kernel of good quality.

**ALMOND (Flowering).**—Beautiful shrub, bearing in May, before the leaves appear, double, rose-like flowers.

**Double Red or White.**—3 or 4 feet. Each 50c to 75c

**ALTHEA (D)—Rose of Sharon.**—These beautiful shrubs bloom very freely in August and September, when few other shrubs are in bloom, and, being easily cared for, are worthy of a place in every garden. Our collection comprises double varieties. Purple, Pink and White.—3 to 4 feet.

**ARBOR VITAE (Thuya).**

**Pyramidal.**—A most valuable upright evergreen of dense compact habit. Each \$1.00 to \$3.50

**Each 50c to 60c**

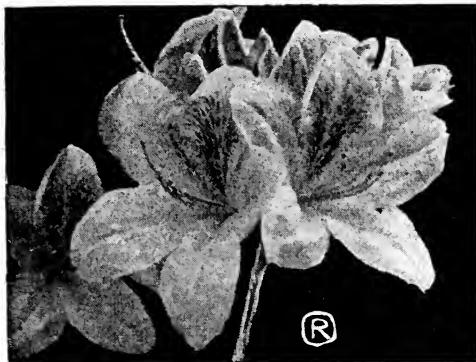
**Chinese Golden.**—A low, compact shrub of a beautiful golden yellow. 1 foot up \$1.00 to \$3.00

We import a miscellaneous lot of evergreens that we do not catalog. Write for price on any stock wanted.

**ARAUCARIA, IMBRICATA (E).**

Chile Pine, or Monkey Tree.—Very rare and beautiful, pointed, needle-like leaves. 1½ feet up. \$2.00 to \$2.50; specimens, \$3.00 to \$5.00.

Araucaria Excelsa.—See Palms and Plants.



Azalia Mollis.—(Flowers one-third size)

**AZALEA (D).**

Mollis.—The most gorgeous of all hardy shrubs. The blossoms, which vary in color from intense crimson to lemon yellow, are borne in greatest profusion in early spring, before the leaves appear. It makes a compact, symmetrical shrub.

BUDDED.—Select varieties in Yellow, Orange or Red, each, \$1.50 to \$2.00; Seedlings, assorted, 75c to \$1.50.

**AZALEA (E).**

A. Crimson.—A hardy evergreen species. These are dwarf compact growers. Foliage small. Flowers dazzling crimson. Each \$1.25 to \$1.50

**BAMBOO (E).**

A very ornamental Oriental plant. We import a fine collection of Bamboo from Japan. Small Plants each, 35c to 50c; Larger Plants, each, 75c to \$1.50.

**BERBERIS—D—(Barberry).**

The Barberry is an interesting family of shrubs, varying in size from 3 to 6 feet and having graceful, feathery foliage. Its showy flowers in early summer are succeeded by bright-colored fruit, which is very conspicuous in autumn and early winter.

Thunbergii.—A beautiful Japan variety of dwarf habit. Small foliage, changing to beautiful red in autumn. Very desirable for grouping. Fine for hedge. Each 35c, 50c and 75c

Vulgaris (Common European).—Yellow flowers in drooping racemes in early summer, followed in autumn by orange-scarlet fruit.

Each 35c, 50c and 75c

Vulgaris Purpurea (Purple).—Violet-colored foliage and fruit; rich-looking and very effective when contrasted with plants of lighter foliage.

Each 35c, 50c and 75c

**BEECH (D)—Fagus.**

Purple Leaved.—Foliage is deep purple in the spring, changing to crimson in the fall.

3 to 6 feet, each \$1.50 to \$3.00 and up

**BIRCH (D)—Betula.**

Remarkable for its elegance; very graceful, with silvery bark and slender branches.

European White. 6 to 8 feet, each \$1.00 to \$1.50

Weeping Cut-Leaved (alba lacinia pendula).—Charming Tree. Its tall, slender, yet vigorous growth, gracefully drooping branches, silvery-white bark and delicately cut foliage present a combination of attractive characteristics rarely met with in one tree. 5 to 6 feet, each \$1.00; 8 to 10 feet, \$1.50 to \$2.50.

**BLEEDING HEART.**—See Dicentra, page 13.

**BOX ELDER.**—See Negundo Maple.

**BOXWOOD (E)**—Buxus.

A compact, small-leaved evergreen, that can be trimmed into balls, box or pyramidal shape. They make handsome single specimens for lawn or porch decoration.

Dwarf, Common.—Fine for borders, edgings or low hedges. 6-inch, each 15c; per 100, \$10.00; specimen plants, shaped, up 1 to 2 feet, 50c to \$1.50 each.

Imported Stock.—These plants are grown and trimmed in the Holland nurseries and are shapely and compact; they are very desirable for decorative purposes. When ready to buy write or call for detailed information and prices.

Pyramids.—2 feet and up. Each \$2.50 to \$10.00 Standards.—Ball-shaped on heavy stalks, 12-inch heads and up. Each \$2.50 to \$12.50

**BUTTERNUT (D).**

4 to 5 feet, each 75c to \$1.00; 6 to 8 feet \$1.50

**CALYCANTHUS (D)**—Sweet-Scented Shrub.

Floridus (Carolina Allspice).—Very sweet-scented, aromatic foliage; chocolate-colored double flowers. Very ornamental shrub. Each 60c to 75c

**CAMELLIA (E).**

Beautiful for the house or garden; evergreen foliage; wax-like flowers, which appear about Christmas indoors or early spring outside.

Japonica, Double White, Pink or Red.

1½ to 2 feet, each \$1.00 to \$1.50

**CATALPA (D).**

A beautiful shade tree. White flowers in July. Speciosa,

4 to 5 feet, each 60c; 7 to 9 feet 75c to \$1.00

**CEDAR (E)—Cedrus.**

Atlantica.—One of the most beautiful evergreens. Upright growth, but low-branched and of compact habit. Foliage light green.

Each \$1.00 to \$3.00

Deodora (Deodar or Indian Cedar).—Of vigorous growth; pyramidal form; graceful foliage of a light, silvery or glaucous green. One of the most beautiful of evergreens.

Each, 1½ to 2 feet, \$1.50; 2½ to 3 feet, \$2.50 to \$3.00; Specimens, \$3.50 to \$5.00.

Aurea.—Graceful foliage of light golden yellow on the young shoots. Each \$1.50 to \$3.00

**CHESTNUT (D).**

Very popular, stately shade trees.

American Sweet. 6 to 8 feet, each \$1.00 to \$1.50

Spanish. 4 to 6 feet, each \$1.00; 7 to 8 feet \$1.50

Mammoth Japanese.—Large, good edible nuts.

4 to 6 feet, each 75 to \$1.00; 6 to 8 feet \$1.50

Horse, European, Red Flowering.—Much slower grower than the white.

3 to 4 feet, each 60c to 75c; 6 to 8 feet \$1.25 to \$2.00.

Horse, White Flowering, 4 to 5 feet, each 60c to 75c; 6 to 8 feet, \$1.00 to \$1.50; 9 to 10 feet, specimens, \$1.50 to \$2.00.

**CLETHRA (D)—Sweet Pepper Bush**

Alnifolia (Sweet Pepper Bush).—An upright, slow-growing shrub, with spikes of fragrant white flowers in midsummer, which continue for a long time. Useful for massing, for natural planting of woods, or for the beauty of the single specimen.

Each 40c, 50c and 75c

**COTONEASTER (E).**

Choicest evergreen, with minute, deep, glossy, green foliage and red berries.

Horizontalis.—A plant of prostrate habit of growth, admirable for covering low walls, or to use in rock work.

Choice plants, each 60c, 75c, \$1.00 and up.

Simondsi.—A beautiful, upright, shrub, with fruit of a rich, deep orange color. Each 50c to 75c

Our prices are for large field grown shrubs—not small one-year cuttings or greenhouse plants. They are worth all we ask. Don't compare our prices with the cheap Eastern mail order houses.

**CRAZ, FLOWERING (D)—*Malus***

**Bechtel's Double Flowering Crab.**—Bears masses of double, rose-like flowers, of a delicate pink color and most delightful fragrance. Blooms when quite young. 3 to 4 feet, 75c to \$1.00

**CYPRESS (E).**

**Lawson's.**

Hardy, graceful, rapid growing evergreen, with feathery bluish-green foliage.

**Specimen plants (See Cut).** 75c to \$2.50 and up  
**For Hedges.**—Small plants 8 to 18 inches; write for prices.

**DAPHNE (E).**

Superb evergreen shrub of compact growth, bearing in early summer many blush white flowers, highly perfumed, and very lasting. The sweetest-scented shrub in existence. Hardy only west of the Cascades.

White or Pink.

Each \$1.00 to \$1.50

**DEUTZIAS (D).**

We are indebted to Japan for this valuable genus of plants. Their hardihood, fine habit, luxuriant foliage, and profusion of attractive flowers, render them among the most beautiful and deservedly the most popular of flowering shrubs at the present time. The flowers are produced in May and June in racemes 4 to 6 inches long.

**Crenata Fl. Pl.**—Grows 4 to 6 feet tall. Flowers very dainty and pretty; white, tinged rose; very double and full.

Each 35c to 60c

**Gracillia.**—Low-growing, compact; covered all over with pure white, bell-shaped flowers.

Each 35c to 60c

**Lemoinei.**—Flowers very large and produced in broad based, cone-shaped heads of from 20 to 30 flowers each, of purest white. Each 35c to 60c



Duetzia Gracillia.

**Pride of Rochester.**—Flowers very double and full; pure white, tinged with blush; great profusion. Each 35c to 60c.

**DICENTRA**—**Bleeding Heart.**—See page 13.

**DOGWOOD (D)—*Cornus***

**Oregon (Cornus Nuttallii).**—One of the handsomest of our native trees. A fine ornamental tree with large white flowers. Each 60c to \$1.00

**SHRUB DOGWOODS.**—These are most desirable on account of their variegated foliage or the highly colored bark of the twigs and branches.

**Sibirica (Red Siberian Dogwood).**—A rare and remarkable variety, with bright red bark in winter.

Each 50c to 75c

**Spathi (Gold-leaved Dogwood).**

Each 60c to 75c

**ELDER (D)—*Sambucus***

These are showy, large shrubs, ornamental in flower, fruit and foliage. Of easy cultivation.

**Canadensis (Common Elder).**—Broad heads of white flowers in June, and dark red berries in autumn. Each 40c to 75c

**Cut-Leaved (laciniata).**—A very beautiful variety. Foliage curiously divided. Each 40c to 75c

**Golden-Leaved (foliis aureis).**—It has beautiful fern-like golden foliage, which retains its showy bright yellow color through the entire summer until late autumn. Each 50c to 75c

**ELM (D).**

One of our most popular and best shade trees. Very desirable for street planting.

**American White.**

6 to 7 ft. each 75c; 8 to 10 ft. \$1.00 to \$1.50

**Cork Bark.**

6 to 7 ft. each 75c; 8 to 10 ft. \$1.00 to \$1.50

**Purple-Leaved.** 6 to 8 feet each \$1.00 to \$1.50

**Weeping Elm (Camperdown).**—One of the most beautiful and remarkable of weeping trees; low growing, branches extending horizontally. Priced according to size of head. Each \$1.50 to \$2.50

**EULALIA.**—See page 14.

**EUONYMOUS (E)**

**Sieboldii (Japonica).**—Leaves dark shining green. A fine plant for the lawn. \$1.50 to \$2.00

**Aurea Variegata.**—Leaves variegated green and gold. A very striking plant. \$1.50 to \$2.00

**Alatus (D.)—Cork-bark;** leaves red in fall. 75c

**Europaeus (Spindle Tree—Burning Bush (D.).**—A large shrub or tree, bearing rose-colored fruit in autumn; fine: 3 to 4 feet. Each 60c to 75c

**Radicans (Trailing) (E).**—Very hardy, dense-growing; useful for covering old walls, etc., as it is self-clinging. Each 50c to 75c

**FAGIUS.**—See Beech.



Lawson Cypress.

Clatskanie, Ore., May 12, 1913.  
Routledge Seed & Floral Co.  
Dear Sirs: Thank you very much for the extra Rose Bushes you sent me, they are fine.  
J. T. PETERSON.

**FIG (D).**

Grown both for fruit and ornamental.

White or Black.

4 ft. up, each 50c to 75c; extra large \$1.00 to \$1.50

**FILBERTS (D).**

These nuts do well on this Coast. We can supply Barcelona, DuChilly, the most popular sorts. 2 to 3 ft. each 35c to 50c; per 10, \$4.00; 100, \$35

*Corylus Purple Filbert*.—Large bush, with large, dark purple leaves; makes a very effective contrast when planted among green-foliaged plants. 3 to 4 feet each 75c to \$1.00

**FLOWERING CurrANT (D).—Ribis.**

The Flowering Currants are gay, beautiful shrubs in early spring, and of the easiest culture.

*Sanguineum*.—Charming crimson flowers in early spring; fine variety. Each 50c to 60c

*Aureum*.—Beautiful yellow flowers; very fragrant, smooth, shining foliage. Each 50c to 60c

**FORSYTHIA (D) GOLDEN BELLS.**

*Viridissima*.—Blooms early in spring, before the leaves appear, when it is covered with golden bell-like flowers. Each 50c to 60c

*Suspensa* (Weeping Golden Bell).—Somewhat pendulous in habit. Each 50c to 60c

**GEINSTA (E) BROOM BUSH.**

*Scoparia* (Scotch Broom).—Rapid growing hardy bushy shrub; producing trusses of yellow flowers in May. Each 25 to 50c

*Juncea* (Spanish).—New yellow variety, blooms all summer. Each 35c to 60c

*Alba*.—A new early flowering white variety of good habit; very attractive. Each 25c to 50c.

**HALESIA (D)—Silver Bell; Snow Drop Tree.**

*Tetraptera*.—A beautiful large shrub, with pretty white bell-shaped flowers in May. One of the most desirable shrubs. Each 60c to 75c

**HEDERA**.—See Ivy, page 93.

**HICKORY (D)**

Slow growing nut tree. Each \$1.00 to \$1.50

**HAWTHORN (D).**

A beautiful flowering shrub that grows to be a fair-sized tree; very desirable; fine foliage.

*Paul's Scarlet*.—Double scarlet, very rich.

Each 75c to \$2.00

*Double White or Red*.

3 to 4 feet 60c; 6 to 8 feet \$1.00 to \$1.50

*Single White*.—For hedge plants.

3 ft. each 20c; per 50, \$7.50; per 100, \$12.00

**HOLLY (E)—Ilex.**

Beautiful small specimen tree for lawn planting. Attractive all the year because of their broad, glossy, prickly leaves, but most beautiful from November to April, when laden with bright scarlet berries.

We have a fine lot of Hollies, both seedling and grafted stock. We also have at different times

very large, fine specimens, with or without berries, from \$10.00 up.

**English (Aquifolia)**.—Berry-bearing plants, per foot. \$1.00; nice plants, \$1.50 to \$2.50; specimens, \$3.50 to \$7.50; seedling stock, per foot 60c; nice plants, \$1.50 to \$3.00; small plants, 4 to 8 inches, for large plantings, very cheap. Write.

**Gold or Silver Margined** \$1.50 to \$3.00 and up

**HONEYSUCKLE UPRIGHT**.—See Lonicera, page 86.

**HYDRANGEA HORTENSIA—D—**

A handsome half-hardy Japanese shrub; most frequently seen in tubs and pots, and does well in somewhat sheltered place. Ornamental foliage and beautiful flowers in large trusses. (See cut below.)

**Hortensia Ajisai Var.**.—Large flowers; clear blue. 60c to \$1.00. Specimens, \$1.50 to \$2.00

**Hortensia White**.—Pure white; large flower. 60c to \$1.00; specimen \$1.50 to \$2.00

**Hortensia Pink**.—A beautiful new pink from Japan. Each 50c, 75c and \$1.00; extra large \$1.50 to \$2.00

**Hortensia Stellata Rubra**.—A grand star-shaped flower, almost double; very beautiful rose and pink; not as hardy as others; excellent for forcing and pots. Each 75c to \$1.00

**Schizophagma (Climbing Hydrangea)**.—(See Climbers), page 93.

**Paniculata Grandiflora**.—The grandest as well as the most popular, of all shrubs, and hundreds of thousands of them are sold every year; excellent for hedges or massing; unsurpassed for the lawn; blooms in July and August, and continues in bloom for two or three months. The flowers are massive, cone-shaped, sometimes 10 inches in length, and changing from the original pure white to pink, and finally to a beautiful rich coppery red.

Strong plants 35c each; \$3.00 dozen; 2 to 3 feet, 40c to 60c; 3 to 4 feet, 75c.

**Arborescens, Grandiflora Alba**; also called "Snowball Hydrangea".—Ball-shaped flowers of very large size and pure white. July and August. Each 60c to 75c

**HYPERICUM**.—See Perennial Plants, page 14.

**JUNIPER (E).**

Very desirable, generally grown in pyramidal form; foliage fine and beautiful.

*Compacta*. 2 foot up \$1.50 to \$3.00

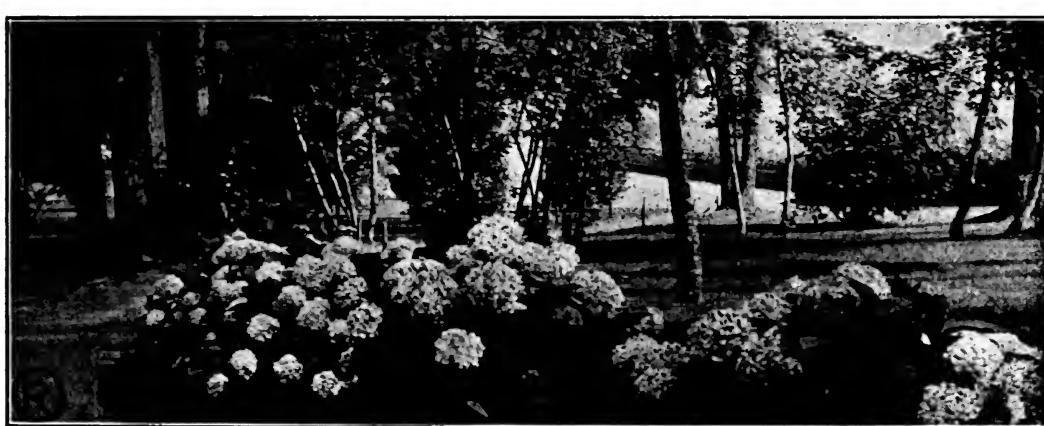
*Irish, Swedish and English*.

2 to 3 ft. \$1 to \$2; specimens, \$2.50 to \$5.

**JUDAS TREE (D)—Cercis**

*Japonica (Red Bud)*.—Very showy.

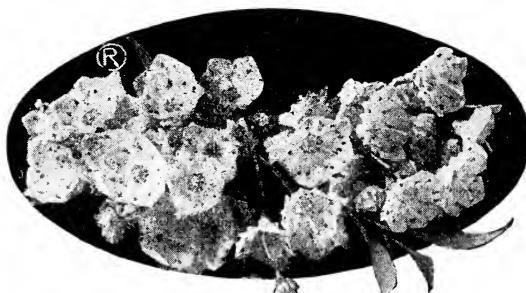
Each 75c to \$1.00



Hydrangea Hortensis (under the Trees)

**KALMIA (E)—Mountain Laurel.**

*Latifolia*.—A beautiful companion to the Rhododendron; beautiful flowers in clusters, pink changing to white; elegant foliage. Each \$1.50 to \$2.00



Kalmia Flowers (One-third Size)

**KERRIA (D)—Corochorus**

*Japonica*.—A green-branched shrub, 5 to 6 feet high; abundant yellow flowers from June to October. Each 50c to 60c

**LAUREL (E).**

*English*.—A small tree, or bush, with handsome shining thick foliage. Excellent for large hedges or screens or as single specimens. 18 to 24 inch, each 75c to \$1.00; 2 to 3 ft., \$1.50.

Small, 12 to 18 in. and up, 50c to 60c. Write for prices in quantity for hedge.

*Portugal Laurel (Laurus Lusitanica)*.—A small, intricately branched tree, with glossy leaves. Flowers white, disposed in slender racemes, appearing in late fall and winter. 1 to 2 feet. 75c to \$1.50

**LABURNUM (D)—Cytisus**

*Laburnum* (Common Laburnum, or Golden Chain).—Smooth and shining foliage. The name "Golden Chain" alludes to the growth of the drooping racemes of yellow flowers which appear in June. Each 75c to \$1.00

**LINDEN (D).**

*European*.—Very desirable and beautiful tree for park or street planting; large heart-shaped leaves, white flowers.

5 to 6 ft. each 75c; 6 to 8 ft. \$1.00 to \$1.50

(Budded Stock)  
Single Lilac**LILACS (D)—Syringa**

Every one loves the lilac and no garden is complete without one or more. The new imported grafted varieties are very beautiful and produce magnificent large flowers.

**Vulgaris**.—Common White or Purple.

3 to 4 feet, 50c to 75c; large specimens, \$1.00 to \$2.00

**Imported Budded Varieties**.—Your selection following named varieties, 3 to 4-year-old select plants, 3 to 4 feet and up, \$1.00 to \$1.50.

**Charles X. (Single)**.—A strong, rapid grower; leaves dark and shining; trusses large and rather loose; color reddish purple.

**Marie LeGraye (Single)**.—Beautiful creamy white flowers of immense size; bush of dwarf habit. One of the most popular white varieties.

**Souvenir de Louis Spaeth (Single)**.—Immense trusses of a deep rosy purple; very choice.

**Mme. Casimir-Perier (Double)**.—The finest double white Lilac. The individual flowers, as well as the truss, are of immense size, deliciously scented; fine for cutting.

**Mme. Lemoine (Double)**.—Fine double white variety that is used extensively for winter forcing.

**Michael Buchner (Double)**.—The best pale lilac or lavender.

**President Grevy (Double)**.—Very large and double; beautiful blue panicles nearly a foot long.

**LOCUST (D).**

**Black or Yellow**.—A handsome, hardy tree; white flowers in June.

5 to 6 feet, each 50c; 8 to 9 feet, 75c to \$1.00

**Honey Locust**.—Rapid growing, sharp thorns; excellent for large hedges or fences.

2 to 3 feet 25c; 4 to 6 feet 35c to 50c; 8 to 9 feet 75c to \$1.00.

**LONICERA (D)—Bush, or Upright Honeysuckle.**  
*Tartarica* (Tartarian Honeysuckle).—Pink flowers, which contrast most beautifully with the foliage. Red berries after flowers.

Each 50c to 75c

*Alba* (White Tartarian Honey suckle).—Its habit is the form of a high bush, with creamy white flowers; very fragrant.

Each 50c to 75c

**MAHONIA AQUIFOLIA (E)—Oregon Grape.**

Native of Oregon, and our state flower. Very valuable and desirable on account of its beautiful foliage and clusters of yellow flowers in spring, followed by blue-black berries. Choice plants, nursery grown, each 50c to 75c; large \$1.00 to \$1.50.

**MAPLE (D)—Acer Japonica.**

*Japanese*.—A beautiful class of low-growing, shrub-like trees, having brilliant colored leaves, which retain their brightness from spring until fall. Nothing finer than these can be had for planting, either in groups or singly on the lawn. Their dense, compact growth, graceful habit and rich colored foliage make them favorites with all who see them.

Price: Any of the following varieties of Japanese Maples, choice plants, \$1.00 to \$1.50; specimen plants \$2.00 to \$3.00.

**Atropurpureum**.—Deep maroon, palmate leaf.

**A. Atropurpureum, Dissectum**.—Deep maroon, richly fringed, thread-like leaflets, drooping nature.

**A. Atropurpureum Variegatum**.—Bright crimson, with deep maroon variegation.

**A. Osaka-Zuki**.—Light maroon, changing to blood red in fall; palmate leaf.

**A. Aureum**.—Circular-shaped, obtusely cut, yellow leaves.

**A. Scolopendrifolium Rubrum**.—Dark red, fine, ribbon-like leaflets.

**MAPLE (D)—*Acer*.**

**Silver Variegated (A. Negundo Variegatum).**—Most attractive; leaf is variegated white and green; at a distance it has the appearance of the whole leaf being a silver-white; an excellent lawn tree.

3 to 4 ft. each 75c to \$1.00; 5 to 6 ft. \$1.25 to \$1.50.

**Ash-Leaved (Box Elder or Manitoba Maple; A. Negundo).**—A fine, rapid-growing variety, with handsome, light green pinnated foliage and spreading head; very hardy; desirable for street planting. 6 to 8 feet each 75c to \$1.00

**Norway (A. Platanoides).**—Its large, compact habit, broad, deep green shining foliage, and its stout, vigorous growth, renders it one of the most desirable species for streets, parks and lawns.

6 to 7 ft. each 60c to 75c; 8 to 10 ft. and up \$1.00 to \$1.50.

**Oregon (A. Macrophyllum).**—A most graceful tree, with wide-spreading branches and large foliage; very rapid growth.

6 to 7 ft. each 60c to 75c; 8 to 10 ft. and up \$1.00 to \$1.50.

**Silver-Leaved, or Soft (A. Dasycarpum).**—Native tree of rapid growth; foliage bright green above and silvery-white beneath.

6 to 8 ft. each 60c to 75c; 10 ft. up \$1.00 to \$1.50

**Sugar, or Rock (A. Saccharinum).**—Popular; its upright habit of growth, dense shade and adaptability to different soils have rendered it one of the most extensively used.

6 to 7 ft. each 75c to \$1.00; 8 to 10 ft. and up \$1.00 to \$1.50.

**Sycamore (A. Pseudo-Platanus).**—A noble variety; deep green foliage; a rapid, upright, free grower; excellent for lawns; fine for planting at the "coast."

6 to 8 ft. each 75c to \$1.00; 8 to 10 ft. and up \$1.00 to \$1.50.

**MOUNTAIN LAUREL (See Kalmia, pg. 86).**

**MULBERRY (D).**

**Dowling's Everbearing.**—This makes a fine tree for the lawn or garden, and its abundant supply of refreshing fruit increases its value greatly.

4 to 6 ft. body 2-year heads, each \$1.50 to \$2.00

**New American Sweet.**—Dwarf, slender, branching variety; graceful and hardy; fine, large edible black fruit.

4 to 6 ft. body, 2-year heads, each \$1.50 to \$2.00

**Russian (Tartarica Pendula).**—Makes a very graceful and desirable small weeping tree. Grows a perfect spreading head.

4 to 6 ft. stem, 2-year head, each \$1.00 to \$2.00

**Tea's Weeping.**—Very graceful hardy; forms perfect umbrella-shaped heads, with long, slender, willowy branches, drooping to the ground; beautiful, healthy foliage.

Grafted 1-year heads, \$1.50; 2 years and over, according to the shape of heads, \$2.00 to \$5.00 up



Japanese Maple Dissectum.



Flower and Bud of Magnolia Conspicua.

**MAGNOLIA (E).**

**Grandiflora.**—Their elegant habit and foliage alone would render them indispensable, but the flowers, their crowning beauty, are unequalled in size and showy effect among hardy trees and shrubs. A magnificent evergreen, with large, leathery green leaves, more than a foot long; bears large, fragrant white flowers. Each 75c to \$1.00; 3 to 3½ ft., \$1.50 to \$2.00; specimens, \$3.50 to \$5.00.

**MAGNOLIA (D). (See cut.)**

**Conspicua.**—A Chinese species of great beauty; shrub-like in growth while young, but attains the size of a tree in time. The flowers are large, pure white, very numerous and appear before the leaves. 2 ft. each \$1.00; 3 ft. each \$1.50 to \$2.00 Specimens 3 to 4 feet, branched, \$3.50 to \$5.00.

**Boulangiana.**—In habit it closely resembles Conspicua; flowers white and purple, cup-shaped and three to five inches in diameter; foliage large, glossy and massive; blooms later than Conspicua.

Small, each \$1.00; large, each \$1.50 to \$3.00; specimens, \$3.50 to \$5.00.

**Lennsei.**—Foliage large; flowers cup-shaped, dark red or purple; very showy; finest of the purple Magnolias. Each 3 to 4 ft., branched, \$3.50 to \$5.00.

**Obovata.**—Has striking flowers, light purple, richly variegated with white. Small, each \$1.00; large, \$1.50 to \$3.00; specimens, \$3.50 to \$5.00.

**MOUNTAIN ASH (D).**

Very ornamental trees, especially when covered with its clusters of red berries in the fall.

**European.**

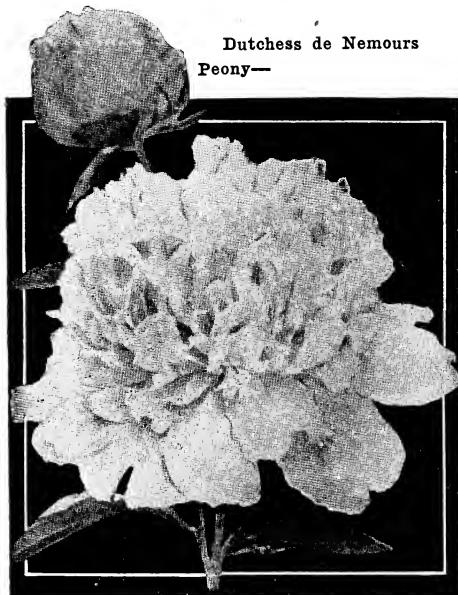
6 to 8 ft. 50c to 75c; 9 to 10 ft. \$1.00 to \$1.50

**WE HAVE**, at our salesrooms, COLORED PLATES of most of the leading Fruit, Shade and Ornament Trees and Shrubs. **ASK TO SEE THEM.** They give you a better idea than a brief description.

**PEONY MOUTAN (D)—Tree Peony.**

A small tree-shaped shrub, which in May is covered with dozens of massive blooms; it presents a magnificent display. We have Cream, White, Pink, Scarlet, Rose and Variegated.

Each 75c; strong plants \$1.00 to \$1.50 each



Duchesse de Nemours  
Peony—

**PEONY (D)—Double Herbaceous.**

One of the most beautiful flowering plants, blooming in May and June. The new varieties are simply gorgeous. Once planted they increase in size and profusion of bloom. Most desirable and beautiful for hedges, groups or individual planting.

Single price is postpaid

Each 50c; dozen \$5.00

Couronne d'Or.—Large bloom, creamy white, reflexed yellow. A most distinct and striking variety.

Each 50c; dozen \$5.00

Duchesse de Nemours.—A superb ivory-white variety of our finest quality.

Each 50c; dozen \$5.00

Eduard Andre.—Immense globular bloom of a deep crimson red, with metallic reflex; very brilliant golden yellow stamens, forming a striking contrast.

Each 50c; dozen \$5.00

Peonia Tenuifolia fl. pl. (Fringed or Carrot Leaved.) Distinct; handsome divided foliage; flowers large, very double and of a deep blood-red; a dwarf, compact bloomer.

50c each; \$5.00 dozen

**Four Choice Colors**

Special.—One each of the following select kinds for only \$1.00 postpaid.

Floral Beauty.—Quite early; a beautiful light pink, shading to cream in the center; very desirable.

Each 30c; dozen \$3.00

Queen Victoria.—Blush white; free flowering.

Each 30c; dozen \$3.00

Officinalis Alba.—One of the best early, pure white.

Each 30c; dozen \$3.00

Officinalis Rubra.—Bright scarlet crimson; very early, rare and fine.

Each 30c; dozen \$3.00

Officinalis Rosea.—Beautiful pink, very early and choice.

Each 30c; dozen \$3.00

Our prices are for large, hardy field grown shrubs—not yearlings, cuttings or greenhouse plants. They are worth all we ask. Don't compare our prices with cheap Eastern mail order houses. Write for special prices in quantity.

**NOT CATALOGUED**

WE IMPORT EACH YEAR SEVERAL CAR- LOADS OF HOLLAND AND JAPANESE ORNAMENTAL SHRUBS AND TREES AND HAVE MANY THINGS NOT CATALOGUED. WRITE OR CALL IF YOU WANT SOMETHING NOT LISTED. WE MAY HAVE IT, OR WILL GLADLY GET IT FOR YOU.

**PERSIMMON (D).**

Highly prized for its delicious fruit.

Japanese.—Fruit large and oblong; color bright red; ripens early in the fall. 3 to 4 feet 50c to 60c

**PHILADELPHUS (D)—Mock Orange or Syringa.**

Popular shrubs. They are usually tall, vigorous growers, with large foliage and flowers, and are valuable for backgrounds, screens, grouping and specimens. Flowers are sweet-scented, milk-white and bloom in May and June.

Each 35c to 50c

Gordonianus (Gordons Syringa).—A valuable variety, blooms late and profusely. Each 50c

Grandiflorus.—Very large, showy, fragrant flowers, somewhat drooping in habit. Each 50c

**POPLAR (D).**

These well-known trees are planted largely for windbreaks, ornamental purposes and street planting, although not desirable near cement walks.

Carolina.—Vigorous growing variety; should be cut back to spread the head.

4 to 6 ft. each 50c; 8 to 10 ft. 60c to \$1.00

Special low prices in quantity.

Lombardy.—Very rapid, erect growing tree, with tall, spiral form.

Each 50c to \$1.00

**PRUNUS (D).**

Among the most beautiful deciduous hardy shrubs of Japan are the flowering plums, apples and cherries. Fine for small and large lawns. They flower profusely very early in the spring before the leaves appear; excellent for cutting.

Japan Flowering Apple.—Fragrant and beautiful; very early; White and Pink. Each \$1.00

Cerasus (Cherry).—Exquisite flowers in May. Each \$1.00

Pissardi.—The purple-leaved plum of Japan. Coveted in the spring with clouds of white flowers, followed by leaves, which turn a beautiful bronzy purple color, remaining beautiful a long time.

Each 75c; Extra \$1.00 to \$1.50

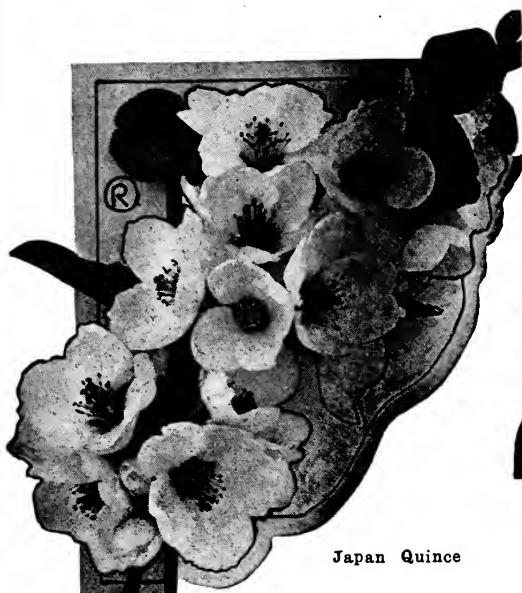
**PRIVET (Evergreen).**

One of the best hedge plants; has small, pointed, evergreen leaves; grows rapidly and compactly; stands severe pruning, and can be kept in fine shape with little care. (See cut.) 1-year-old plants, 12 inches up, per 50, \$1.50; per 100, \$2.50; 2-year-old plants, 24 inches up, per 50, \$3.00; per 100, \$5.00.

Aurea Variegatum.—Leaves delicately margined with golden yellow, very showy. Each 50c to 60c

**PURPLE FILBERT.—See Filbert.**

Privet Hedge



Japan Quince



Rhododendron (Flowers one-fourth Size)

**RHODODENDRONS (E).**

This, wherever known, is universally acknowledged to be the most showy, magnificent, hardy evergreen shrub that grows. It will thrive in any good soil without any special preparation, and in the full blaze of the sun, but it is more luxuriant in good, well-prepared soil and in partial shade. The broad, thick, evergreen foliage, with its glossy richness, would alone entitle it to a place foremost in the rank of evergreen shrubs, but when, in May and June, this mass of luxuriant foliage is almost hidden by the magnificent array of beautiful flowers in all colors from white to purple, the effect is simply grand. We import from Holland the choicest and best named varieties.

Good Plants. \$1.50 to \$2.00

**QUINCE (D)—*Cydonia***

*Japonica* (Japan Quince).—Popular shrub, which blooms profusely in early spring; flowers dazzling scarlet; makes an excellent hedge.

Each 50c to 75c

**RETINOSPORA (E).**

One of our most showy and graceful evergreens. There is a large class of Retinosporas, but the most popular are those of compact tufted character. Choice, well-shaped plants in Green and Golden. 1 to 2 feet.

\$1.00 to \$2.50 and up

**RED BUD—*Cercis*.**

*C. Canadensis* (American Judas Tree, B.)—A very ornamental shrub for lawns, of medium size, irregular rounded form, with perfect heart-shaped leaves of a pure green color, glossy surface above, and grayish green beneath. Derives the name of Red Bud from the profusion of delicate reddish purple flowers with which it is covered before the foliage appears.

Each 60c to 75c



Colorado Blue Spruce (Kosteri)

Choice Named Varieties.—Strong and bushy, well set with flower buds that will flower nicely the first year; your selection of colors in White, Pink, Rose, bright or dark Red, Lavender, Rosy Lilac or Purple.

Prices: Small plants \$1.50 each; select, \$2.00 each, \$20.00 dozen; extra select \$2.50 each, \$25.00 dozen; extra large specimens, \$3.00 to \$5.00 each.

Ponticum.—Very hardy, strong grower, rosy purple flowers. 2 to 3 ft., \$1.00 to \$1.50

**ROSE OF SHARON—(See Althea).**

**SCOTCH BROOM—(See Genista.)**

**SMOKE TREE—*Rhus*.**

Purple Fringe or Smoke Tree.—Much admired for its feathery inflorescences that cover the whole surface of the tree in midsummer.

Small, 50c to 60c; specimens, \$1.00

White Fringe.—Has drooping racemes of pure white flowers; a superb lawn tree. 75c to \$1.00

**SPRUCE (E)—*Abies*.**

*Excelsa* (Norway Spruce).—One of our most popular evergreens. Very desirable for single specimens in the lawn and largely used for screens and wind breaks on account of its rapid growth. Foliage dark green.

Specimen plants. 75c to \$2.50 each; for hedges 20c to 60c, according to size.

*Pungens, Glauca-Kosteri* (Colorado Blue).—A beautiful variety on account of its magnificent rich, silvery blue color. We offer only the "true blue" imported from Holland.

Small plants, \$1.50 to \$2.00; 3 feet up \$4.00 to \$5.00.



Spirea Thunbergii

**SPIREAS (D).**

Graceful shrubs, every one should plant. They are of the easiest culture, and very desirable in collections. All the Spireas bloom with a riotous extravagance which makes them quite striking. Their individual style, color and habits of growth differ so markedly, that a collection of varieties will ensure bloom the entire season and still evade the monotony of repetition.

**Anthony Waterer (Bumalda).**—Covered nearly the whole growing season with large umbels of deep crimson flowers. Each 60c and 75c

**Prunifolia (Bridal Wreath).**—Slender, erect ingrowing variety, bearing very early in the spring, small double white flowers the entire length of its branches; very graceful habit.

Each 35c, 50c and 60c

**Van Houtte.**—The grandest of all the Spireas. It is a beautiful ornament for the lawn at any season, but when in flower it is a complete fountain of white bloom, the foliage hardly showing; perfectly hardy and an early bloomer. (See cut.)

Each 35c, 50c and 60c

**Tunbergii.**—Of graceful habit; the branches are slender and somewhat drooping; foliage in autumn changes to bright red and orange; flowers in feathery masses, white, appearing early. (See cut.)

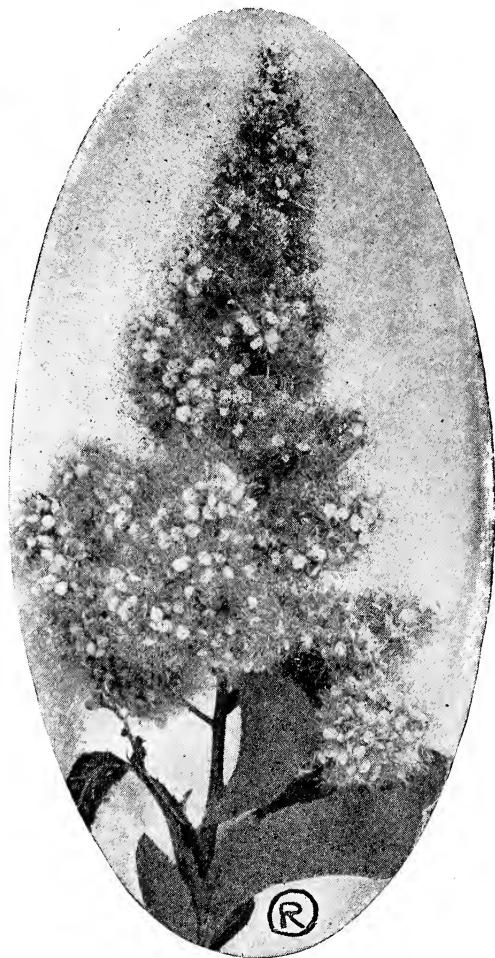
Each 35c, 50c and 60c

**Billardi.**—Produces fine, deep pink flowers and blooms nearly all summer. (See cut.)

Each 35c, 50c and 60c



Spirea Van Houtte.



Spirea Billardia (Flower Spike)

**SUMAC (D).**

Cut-Leaved Sumac (*Rhus Glabra Laciniata*).—A beautiful shrub, with large leaves, deeply and finely cut, and drooping graceful habit. Leaves assume a gorgeous crimson color in autumn.

50c to 60c

**SYMPHORICARPUS (D)—Snowberry.**

Highly valued for use in densely shaded situations where little else will grow, and for the striking beauty of their bright, persistent fruits. 3 to 5 feet.

**Racemosus (Snowberry).**—Inconspicuous, rose colored flowers in June and July; followed by large, clustered, milk white fruits which remain far into the winter.

50c to 60c

**Vulgaris (Indian Currant).**—Similar to the Snowberry except that its fruits are red, and that the smaller red berries cluster in thickly about the stems and branches.

35c to 60c

**THUYA.**—See Arborvitae.**TAMARIX (D)—Tamarisk.**

Shrubs of light green, feathery foliage, thriving in light, sandy soil.

**Africana.**—Pink flowers. Each 50c to 60c

**TULIP TREE (D).**

A rapid-growing tree, with rich, glossy foliage; flowers tulip-shape, greenish-yellow; a fine shade tree.

4 to 6 ft. each 75c; 7 to 8 ft. each 75c to \$1.00

**NOTE—By Mail**

We will send Spireas and other flowering shrubs of like nature by mail if you add 10c to 15c extra for postage.

**DON'T**

Be misled by the fine catalogs with little prices sent out from the East. Buy our field grown plant, much larger and better than the weakly Eastern stock. We know it!



Viburnum Plicatum—Japanese Snowball.

**TREE PEONY.**—(See Peonies.)

**VIBURNUM (D)**—Snowball.

*Sterilis* (Common Snowball).—Blooms in latter part of May. Flowers pure white, large balls. Every one should plant a Snowball.  
3 to 4 ft. each 50c to 60c; 5 to 6 ft. 75c to \$1.00;  
extra choice plants \$1.50.

*Plicatum* (Japanese Snowball).—One of the most charming hardy flowering shrubs in existence; bears great wreaths and clusters of pure white globular masses of flowers; covered with bloom for weeks in the spring; grows 4 to 6 feet high; entirely hardy.  
1½ to 2 ft. 50c to 60c; 2 to 3 ft. 75c to \$1.00

**WILLOW (D)**—Salix.

*Americana Pendula*.—A low-spreading tree, with graceful, flexible, pendulous branches and fine foliage. This is also known as the Fountain Willow.  
Each 60c to \$1.00

*Babylonica* (Babylonian or Weeping Willow).—Foliage is bright green and has a wavy appearance. A well-known and graceful variety.  
Each 60c to \$1.00

*Caprea Pendula* (Kilmarnock Weeping Willow).—Very distinct and ornamental. Large, dark green leaves; branches droop to the ground.  
4 to 6 ft. stem, good head, \$1.50 to \$2.50

**WEIGELA (D)**—(Diervilla).

Beautiful shrubs that bloom in May, June and July. The beautiful trumpet-shaped flowers are produced in so great profusion as to almost entirely hide the foliage. They are very desirable for the border or grouping, and as specimen plants for the lawn. (See illustration.)  
Prices: Each 35c to 50c; extra large plants, 60c to 75c.

*Candida*.—Beautiful white flowers; a continuous and profuse bloomer; very hardy.

*Eva Rathke*.—New. A remarkably free bloomer. Very distinct color, being a rich, brilliant crimson.

*Rosea*.—Lovely large, rose-colored flowers, borne in such profusion that the whole bush appears a mass of rosy bloom.

*Nana Variegata*.—Leaves beautifully margined silvery white; flowers pinkish white, in wonderful profusion; dwarf grower.

#### WALNUTS (D).

American Black (Juglan).

4 to 6 ft. each 60c to 75c  
*English or French*.—We have a fine lot of one and two-year-old trees (the best age to plant). These are nut-bearing, second-generation stock, and of the best varieties for this Coast.

Prices: 1 year, 30c each, \$2.50 per 10, \$22.50 per 100. 2 years 40c each, \$3.50 per 10, \$30.00 per 100, 2 yrs., 3 to 4 ft. 50c to 60c; 5 ft. each 75c; 6 to 8 ft. \$1.00 each; 8 to 9 ft. \$1.25.

Write for our very low prices by the thousand.



Weigela (Flowers one-half Size)

#### LANDSCAPE ARCHITECTS AND GARDENERS

We are in close touch with the best landscape architects and gardeners in the West, and no matter how small or how elaborate a garden, lawn or park you want laid out, we will put you in touch with an artist equal to the occasion, if you give us an idea of what you want. This is free service to our customers. You make your own arrangements with the person sent, as to plans, labor, etc.

**YEW (E)—*Taxus*.**

Small growing evergreens that are highly ornamental as single specimens or in groups. Very desirable for formal effects.

**English (Baccata).**—Of slow growth and bushy form; branched and thickly covered with somber green foliage; can be trimmed into any shape.

2 ft. up \$1.00 to \$2.50

**Irish (Hibernica).**—Peculiarly upright in growth; foliage dark green and distinct; compact.

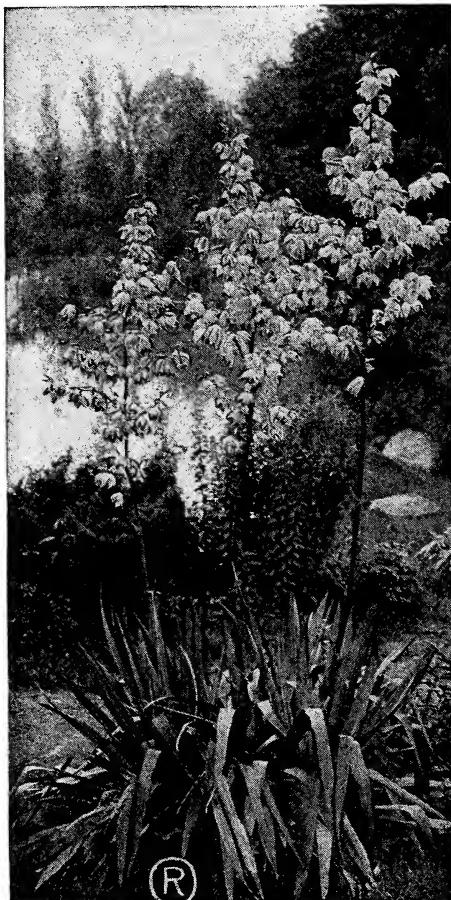
1 ft. up \$1.00 to \$3.00

**Irish Golden.**—Leaves green and gold; very attractive and effective. Each \$1.00 to \$2.50

**YUCCA (E).—Adam's Needle.**

A stately foliage and flowering plant equally imposing in solitary or group plantings, always conspicuous. The broad sword-like foliage is evergreen; while midsummer shows great erect branching stems bearing a showy display of pendant, creamy-white bells.

1 year plants, 8 to 10-inch, 20c each, \$2.00 dozen; 2-year and up, 35c to 50c; 15 to 24-inch, 75c to \$1.00; specimen plants, \$1.50 to \$3.00.

**PERENNIAL FLOWERING PLANTS.**

They are of easiest culture hardy, improve each year and produce a profusion of flowers excellent for cutting or decorating. See pages 12 to 16.

**HARDY CLIMBING AND TRAILING VINES**

**CLEMATIS (Virgin's Bower).**—No hardy flowering climbing vine excels in beauty and effectiveness the finer sorts of Clematis. As a climber for the veranda, a screen for fences, for pillars along the



Clematis Jackmanii Vine and Single Flower,  $\frac{1}{4}$  Size.

Yucca (in bloom)

garden walks, for training on walls or arbors, or in masses on rockwork, it has no rival among strong growing blossoming plants. The Clematis should be grown in rich, deep, sandy loam, and be well mulched with rotten manure in winter. The richest sheets of bloom and largest flowers are obtained where it has partial shade and a liberal supply of water at the roots.

**Paniculata (New Sweet-Scented Japan Clematis).**—Of very rapid growth, quickly covering trellises and arbors with handsome, clean, glossy, green foliage. The flowers are of small size, pure white, borne in profusion in September and October, and of a most delicious and penetrating fragrance.

Small plants, 25c; strong 2 to 4 year old plants, 35c to 75c each.

**C. Montana.**—A hardy rapid grower, flowers snow white, fragrant and freely produced in May and June.

Strong plants, 50c to 75c

**C. Coccinea.**—Hardy. Handsome bell-shaped flowers; bright red from June until frost.

Strong plants, 35c to 50c

**Large-Flowered.**—These bear large and beautiful flowers of various shades of color through the latter part of the summer and early fall. The following varieties are the very best and our plants are all two years old.

**Strong roots 75c each; 3 for \$2.00; 5 kinds, \$2.75, postpaid.**

**Henryi.**—Fine, large, creamy white flowers.

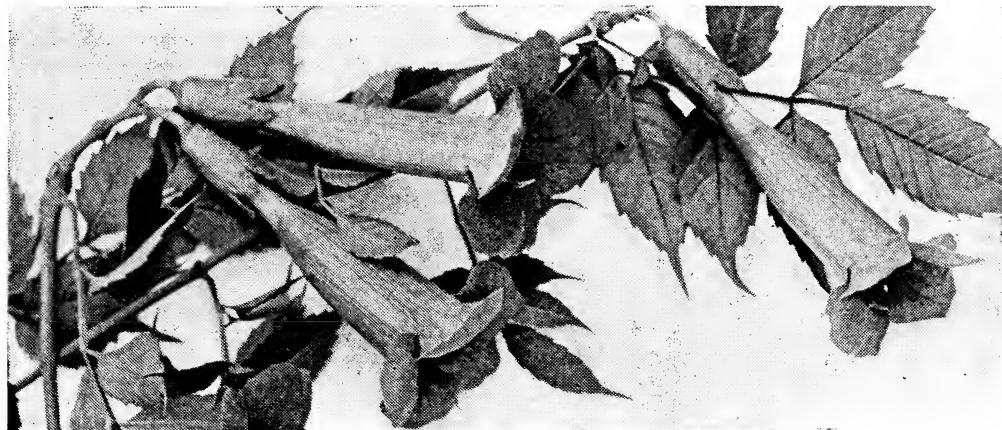
**Jackmanii.**—Intense violet purple; most popular variety.

**Ville de Lyon.**—The best bright red; equal to Jackmanii in size.

**Lawsoniana.**—The best light blue or lavender.

**Duchess of Edinburgh.**—A free-flowering double white variety; very fragrant.

## HARDY CLIMBING AND TRAILING VINES—Continued

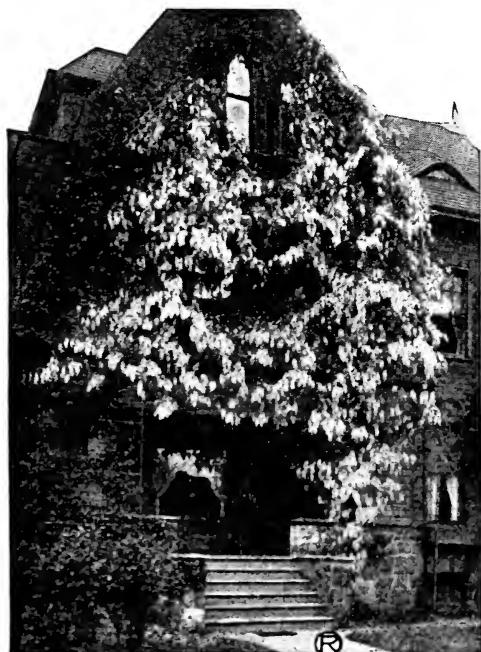


Trumpet Vine (Bignonia).

**AMPELOPSIS**

**Veitchi** (Boston Ivy, or Japan Ivy).—The most popular and desirable climbing plant for covering brick, stone or cement walls, etc.; when it becomes established at the root it is of very rapid growth, and clings to the smoothest surface. The foliage is of a rich olive green during the summer, changing to various shades of bright crimson and scarlet in the fall. In planting Veitchi of all kinds, the plants should be cut down to within 6 inches of the ground, so that the new growth may cling to the wall from the bottom up.

Strong plants 25c to 35c; extra strong 50c



Wisteria Vine in Bloom

**Quinquefolia** (Virginia Creeper, or American Ivy).—This well-known climber is one of the best and quickest growing varieties for covering trees, trellises, arbors, etc.; its large, deep green foliage assumes brilliant shades of yellow, crimson and scarlet in the fall.

Strong plants 25c to 35c; extra strong 50c

**Engelmanni**.—A greatly improved variety of the Virginia Creeper with dense foliage of a glossy light-green in summer, changing to a brilliant crimson in the autumn. On a rough surface it will cling without support in the same way as the

Veitchi. Strong plants 25c to 50c; extra strong 50c

**CLIMBING HYDRANGEA.**

**Schizophragma**.—This bears large panicles or trusses of flowers, which resemble a white Hydrangea. It clings readily to any rough surface or wall, flowering freely during July and August.

Large imported plants \$1.25 each; cannot be mailed

**DUTCHMAN'S PIPE** (*Aristolochia Sepho*).

A strong, rapid growing vine with handsome light green leaves. It will give a quick, dense shade, and is much used on arbors and trellises. The brown flowers are shaped like the bowl of a pipe. Large plants. Each 75c to \$1.00

**HONEYSUCKLE.**

A beautiful climber, rapid grower and very desirable; flowers very fragrant, and produced in great profusion. Your choice of the following 35c to 50c each; extra strong 60c to 75c.

**Halleana**.—Very popular; almost evergreen; profuse bloomer; flowers white, passing to yellow; deliciously sweet.

**Belgica** (Monthly Fragrant).—Flowers large and very fragrant; color red and yellow.

**Semperflorens** (Scarlet Trumpet Honeysuckle).—Trumpet-shaped flowers of bright scarlet.

**Flava** (Yellow Trumpet).—A choice but scarce species, with bright yellow flowers.

**IVY.**

**Common English**.—Thick, leathery, evergreen leaves; strong grower. Good roots each 25c; \$2.00 dozen

**JASMINE**

Graceful climbers with fine foliage, clean, neat, attractive and hardy.

**Nudiflorum**.—Fragrant golden yellow flowers, blooms in the spring. Each 50c to 60c

**Officinale**.—Small fragrant white flowers in great profusion all summer. Each 50c to 60c

**TRUMPET VINE**—*Bignonia*

For covering unsightly places, trellises, rock-work, or wherever a showy-flowering vine is desired, the Bignonias will be found very useful. The flowers are large attractive and borne profusely when the plants attain a fair size.

**Grandiflora**.—Large, early flowers of orange-red. Strong plants each 50c to 75c

**Radicans**.—Dark red, orange throat, free blooming and very hardy. Strong plants each 50c to 75c

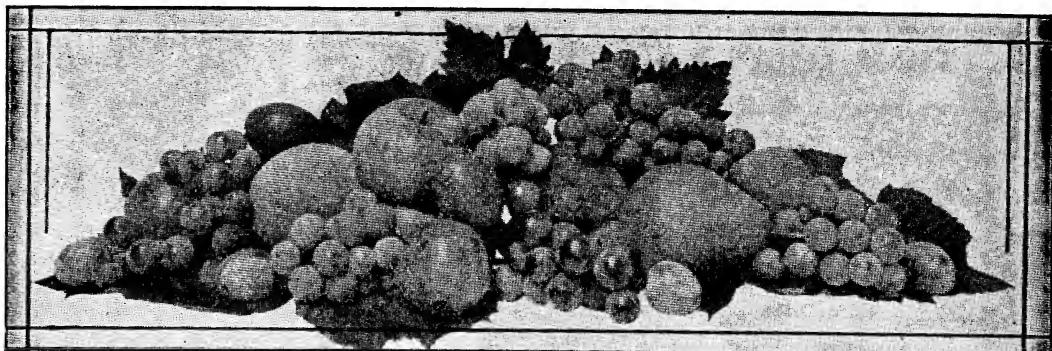
**WISTARIA**

A rapid, hardy climber, that will grow to a height of 50 feet or more. The fine foliage and flowers are produced early in the season, and come in magnificent clusters. One of the most desirable and showy climbers we know of.

**Sinensis**.—Lovely panicles of flowers, produced in the most wonderful profusion. White or Purple, strong, 2 year vines, 60c to 75c; extra heavy, \$1.00 to \$1.50 each.

**Multijuga**.—This valuable new Wistaria was introduced from Japan, and produces magnificent racemes of lovely flowers, often measuring 18 to 24 inches in length. White or Purple—Budded stock from Japan \$1.00 to \$1.50; extra old and strong, \$2.00 to \$2.50.

## FRUIT TREES, BUSHES, VINES AND PLANTS



We are making a specialty of select fruit stock. This branch of our business has made immense growth. Our manager has been in this line of work in Oregon for over 20 years. Aside from large stocks grown for us on contract, we are in close touch with the largest, most reliable and careful growers. We know where the best stock is produced.

We are always glad to give you the benefit of our experience as to varieties for the different sections, planting, pruning, etc., and solicit your orders, whether large or small.

We again call your attention to the fact that we are catering to the "Particular Planter," who wants "High Quality," and is willing to pay a price necessary to secure it. Any sensible person knows that "Highest Quality" in stock of any kind is more expensive to produce than common, and therefore is worth more. Our prices are low, quality considered.

**Low prices by the 100 or 1000—write, we'll save you money. Commercial planters often use smaller grades which we can sell very cheap.**

### SUBSTITUTION

If the varieties of the tree ordered cannot be supplied or bought locally, others equally as good and correctly labeled will be substituted, unless otherwise ordered.

**NOTE.**—On this and the following pages you will note that we give full description of only a few varieties under each heading. These, we believe, are the best for general or home planting, and you will not miss it by selecting them. We, however, can supply almost any variety grown, whether catalogued or not, so you can order any kind you want.

### APPLES

|                                | Hach.      | Doz.   |
|--------------------------------|------------|--------|
| Two-year-old .....             | \$0.25     | \$2.00 |
| One-year-old, 4 to 6 feet..... | .20        | 1.50   |
| One-year-old, 3 to 4 feet..... | .15        | 1.25   |
| Selected .....                 | 35c to .50 |        |

Write for our low prices by 100 or 1000.

### SUMMER VARIETIES

- \*RED ASTRACHAN.—Medium, deep crimson, flesh white, moderately juicy, with an agreeable rich acid flavor; very productive.
- \*YELLOW TRANSPARENT.—Medium size, roundish, slightly conical; skin pale yellow, flesh tender, juicy, sub-acid; good.
- Early Harvest.—Medium size; bright straw color.
- Duchess of Oldenburg.—Large, yellow streaked red.
- Red June.—Early, deep red; good; medium size.

### AUTUMN VARIETIES

- \*GRAVENSTEIN.—Large, beautiful yellow, dashed with deep red and orange; tender and crisp, with a highly aromatic flavor; tree very vigorous; very popular sort.
- Fall Pippin.—Very large, yellowish green.
- \*BISMARCK.—Fruit large, handsome, yellow shaded red, flesh tender, sub-acid. Bears very young. September.
- KING OF TOMKINS COUNTY.—Very large, globular; yellowish, shaded with red; flesh yellowish, rather coarse, juicy, rich flavor.
- Maiden's Blush.—Yellow, with red cheek; excellent.
- Twenty Ounce.—Large and showy; good.
- Waxen.—Pale yellow; flesh crisp, tender; medium.

**DWARF APPLE TREES**—These produce just as large fruit as the standards, but the trees do not grow as large, therefore are very desirable for the planter who has limited space. We can furnish in Dwarf Stock all varieties preceded by a "\*" at 50c each; \$5.00 per Doz.

### SPRAY PUMPS

Every fruitgrower needs a Spray Pump. We have an excellent line that we'll guarantee to give satisfaction. See pages 102 to 106.

## APPLES—Continued

### NEW APPLES OF SPECIAL MERIT

**DELICIOUS.**—A splendid apple; coming into prominence rapidly. Tree vigorous and hardy and the fruit equals the name in every respect. Fine for market and home use; late; keeps till April.  
Each 35c; selected 50c

**WINTERSTEIN.**—A winter apple of the Gravenstein type; flesh yellowish, very tender, rich, spicy, sub-acid; highest quality, with a flavor all its own. Originated by Luther Burbank, of California. Should be planted by every one desiring fruit of high quality.  
Each 35c; selected 50c

**MULTNOMAH.**—(New.) A grand new sort. Originated by H. A. Lewis. Fruit large; color red, striped yellow; flesh white and fine and of sub-acid flavor; extra long keeper and in its prime from February to June; the coming apple for long distance shipment and Oriental trade.  
Each 35c; selected 50c

**OPALESCENT.**—Probably the handsomest apple ever introduced; color red; skin smooth; flesh yellowish, tender, juicy and good; a beauty; all right for size, quality and productiveness.  
Each 35c; selected 50c

## CRAB APPLES

Nice stocky trees, selected, 35c each; 2-year 25c; 1-year 20c

**TRANSCENDENT.**—Fruit very large, skin yellow, striped with red; the best of its class for cider.

**Yellow Siberian.**—Fruit small, golden yellow.

**FLORENCE.**—Size medium, red striped, early bearer; bearing full crop each year; tree immensely productive; juicy and crisp; the best for home garden.

**Hyslop.**—Large, dark crimson; popular.

## APRICOTS

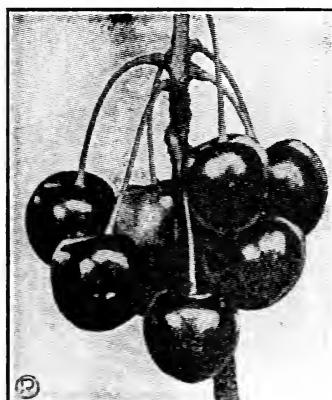
|                                                                                                                                     | Each   | 12     |  |
|-------------------------------------------------------------------------------------------------------------------------------------|--------|--------|--|
| 2-year-old .....                                                                                                                    | \$0.35 | \$3.50 |  |
| 1-year-old, 4 to 6 feet.....                                                                                                        | .30    | 3.00   |  |
| Selected .....                                                                                                                      | .50    |        |  |
| MOORPARK.—Very large, yellowish-green; brownish-red on the sunny side; flesh bright orange; fine for canning and drying; freestone. |        |        |  |

**LEWIS.**—One of the largest apricots known; handsome in appearance; flavor excellent. If you have room for only one apricot tree, plant the Lewis.

Price, 1-year 60c; 2-year 75c

**Royal.**—Above medium size; sweet, rich and juicy.

**Tilton.**—Large, rich color, high flavor; very productive.



## CHERRIES

|                                | Each        | Doz.   |
|--------------------------------|-------------|--------|
| Two years old.....             | \$0.50      | \$5.00 |
| One year old, 4 to 6 feet..... | .40         | 4.00   |
| One year old, 3 to 4 feet..... | .30         | 3.50   |
| Selected .....                 | 75c to 1.00 |        |

Write for our low prices by 100 or 1000.

**BING.**—Originated in Oregon; fruit large, dark brown or black; very fine; late; a good shipping variety.

**BLACK TARTARIAN.**—Of large size; flesh purple; half-tender and juicy.

**KENTISH** (Early Richmond).—Light red, juicy; one of the best acid cherries and unsurpassed for cooking purposes; very productive.

**LATE DUKE.**—Large, light red; late and excellent; sub-acid.

**LAMBERT.**—Fruit of largest size and of fine quality; color deep, rich red; flesh firm and of fine flavor; a fine market variety; ripens two weeks later than Royal Ann.

**MAY DUKE.**—Large, rich, dark red; flesh tender, juicy and sub-acid; an excellent variety, and one of the earliest of its class.

**MONTMORENCY.**—A beautiful, large, red, acid cherry; larger and finer than Early Richmond, and fully ten days later. Being extraordinarily prolific and very hardy, it can be recommended as a variety of great value. Valuable for canning and preserving. A free grower.

**MILLERS LATE.**—This new Cherry resembles the Late Duke in color, shape and flavor, but it is a larger and later variety, which makes it very valuable and desirable.

**ROYAL ANN** (Napoleon Bigarreau).—A magnificent Cherry of the largest size; pale yellow, becoming amber in the shade; richly dotted and spotted with deep red, and with a bright red cheek; flesh very firm, juicy and sweet; tree a rapid grower and immense bearer.

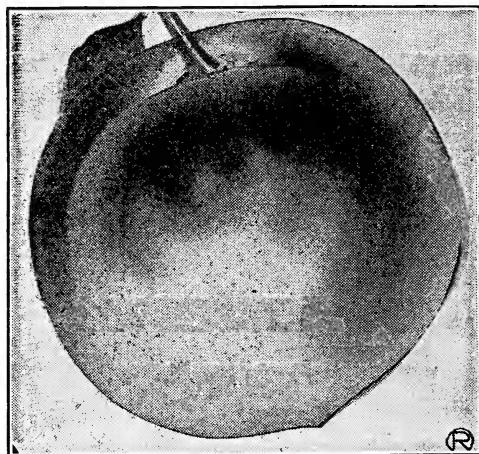
### NEW GIANT—Originator's Own True Stock

No one could wish for a finer flavored Cherry. It is a most desirable variety for all purposes. Fruit extra large, flesh rich, dark red, firm, yet juicy and delicious. Ripens after the Lambert. On account of its lateness it generally escapes the late spring rains that often injure the other main crop varieties. If you can only plant one Cherry Tree, plant a Giant.

We have bought all of the one, two, three and four-year trees of this grand new Cherry that the propagator, Mr. Kallish, has, and made arrangements for his future stock, so if you want the True, Genuine, New Giant, order direct from us. We offer the following sizes:

Prices—Selected budded trees, 2-year, 50c to 75c; 3-year, \$1.00 to \$1.50; limited number of 4-year specimens, \$2.00 to \$2.50 each.

**SAVE MONEY**—Get your neighbor to order with you. You save freight charges, get the benefit of quantity prices, and we will give you regular agent's commission on the additional orders.



## PEACHES

|                              | Each   | 12     |
|------------------------------|--------|--------|
| Two-year-old .....           | \$0.35 | \$3.50 |
| 1-year-old, 4 to 6 feet..... | .25    | 2.50   |
| 1-year-old, 3 to 4 feet..... | .20    | 2.00   |
| Selected .....               | .50    |        |

Write for our low prices by 100 or 1000.

**EARLY CRAWFORD.**—Very large, yellow, with red cheek; flesh sweet and excellent; our most popular peach for table and canning; freestone.

**ALBERTA.**—Very large, bright yellow, red cheek; flesh yellow juicy, sweet; regular bearer; fruit very showy and perfect; freestone.

**EARLY CHARLOTTE.**—An improved seedling from Early Crawford, originated at Salem, Ore. This remarkable Peach succeeds in Oregon, where many other varieties fail. Flesh yellow, melting and juicy, with a rich and excellent flavor; freestone; ripens ten days after Crawford's Early.

**LATE CRAWFORD.**—Very large, roundish; yellow, with dark red cheeks; flesh deep yellow, juicy and melting; flavor rich and excellent; very popular; valuable for canning and drying; freestone.

**MUIR.**—Large, pale yellow, very firm and sweet; best for drying; freestone.

**SALWAY.**—Creamy yellow, red cheek; flesh deep yellow, red at the pit; rich and sweet; a standard late peach, growing more and more in favor with orchardists; freestone.

## PEARS

| Unless otherwise priced        | Each        | Doz.   |
|--------------------------------|-------------|--------|
| Two years old.....             | \$0.40      | \$4.00 |
| One year old, 4 to 6 feet..... | .35         | 3.50   |
| One year old, 3 to 4 feet..... | .30         | 3.00   |
| Selected .....                 | .50c to .75 |        |

Write for our low prices by 100 or 1000.

## SUMMER VARIETIES

**BARTLETT.**—Large, skin thin, clear, lemon yellow, with soft blush on the sunny side; flesh white, buttery, very juicy and highly flavored; the best summer pear in existence.

**Clapp's Favorite.**—Fine-grained and melting.

**KOONCE.**—One of the most successful early market pears; a strong, upright grower; hardy, magnificent foliage; has produced crops when all other varie-

ties were killed by frost; fruit medium, yellow, with carmine cheek; juicy, spicy, sweet and delicious quality; ripens with the earliest; an excellent shipper; it comes into bearing young; July and August.

**SECKEL.**—Rich and highly flavored; its highly concentrated, spicy, honey flavor is unequalled; skin brownish green, russet brown cheek; flesh whitish, buttery and melting.

## AUTUMN AND WINTER VARIETIES

We can supply any other standard variety; these are the most popular for home and commercial plantings.

**BEURRE CLAIRGEAU.**—Large, yellow, shaded with orange and crimson; covered with russet dots; flesh yellowish, buttery, juicy; October-November.

**BEURRE D'ANJOU.**—A large, fine pear, buttery and melting, with sprightly, vinous flavor; tree a fine grower and good bearer; one of the very best; October to January.

**BEURRE EASTER.**—Large, yellowish; flesh white, fine-grained, juicy; sweet, rich flavor; very late.

**COMICE.**—A splendid commercial variety, being of fine size; good appearance; ships well; October.

**FALL BUTTER.**—Favorite fall pear; yellow, smooth and juicy; September.

**DWARF PEAR TREES**—We can supply the leading kinds at 50c each; \$5.00 per Doz.

## QUINCE

|                          | Each        | 12     |
|--------------------------|-------------|--------|
| 2-year-old .....         | \$0.40      | \$4.00 |
| 1-year-old .....         | .35         | 3.50   |
| Select, 2-year-old ..... | .50c to .75 |        |

**CHAMPION.**—Large, yellow; flesh cooks very tender; flavor is most delicious; more productive than the orange, ripening two weeks later.

**PINEAPPLE.**—The fruit in form and size resembles the Orange Quince, but is smoother and more globular. Makes a superior jelly. Can be eaten raw, and is said to cook as tender in five minutes as the best cooking apple, possessing a most exquisite and delicious flavor, not equaled by any other quince.

1 year 50c; 2 year 75c

## PLUMS

Unless otherwise priced

|                                | Each        | Doz.   |
|--------------------------------|-------------|--------|
| Two years old.....             | \$.30       | \$3.00 |
| One-year-old, 4 to 6 feet..... | .25         | 2.50   |
| Selected .....                 | .35c to .50 |        |

Write for our low prices by 100 or 1000.

**A BUNDANCE.**—Fruit large and beautiful; bright cherry; flesh light yellow, juicy, tender, sweet; productive; ripens first of August. Adheres partially to the stone. August.

**BRADSHAW.**—Reddish purple, juicy and pleasant; **BURBANK.**—Largest and handsomest of the new plums; perfectly hardy, free from disease; juicy, tender and sweet; ripens early August; as fine eating as a peach; freestone; should be in every collection. Price 50c; selected 75c

**COE'S GOLDEN DROP.**—Large and handsome; light yellow; firm, rich, sweet; one of the best of late plums; last of September.

**COLUMBIA.**—Largest size, nearly globular; brownish purple; rich, sugary, freestone; August.

**DAMSON.**—Small, oval; skin purple; flesh melting, rather tart; September.

**GREEN GAGE.**—Small, round; flesh pale green, melting and juicy; freestone; August.

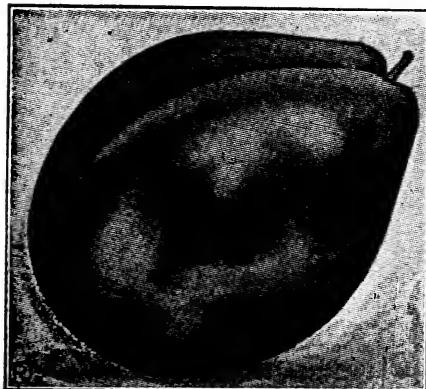
**PEACH.**—Very large; skin brownish-red, slightly coarse-grained, but juicy; freestone; very popular; August.

**YELLOW EGG.**—Very large; skin of a deep golden color, but rather acid; excellent for cooking; very showy; August.

**MAYNARD.**—Originated by Luther Burbank. In size it is very large, form nearly round, flattened at the ends, of richest crimson-purple, deepening to royal damask as full ripeness is reached. Tree hardy, vigorous and compact grower; bears immense crops of even-sized fruit while very young; never fails; surpasses all other varieties in keeping and carrying qualities; flesh firm even when dead ripe, but melting and juicy with a deliciousness indescribable. Commands the highest price in home and foreign markets; July. Price 75c; selected \$1.00

**SATSUMA (Blood Plum).**—Quite popular, large, dark red from skin to pit, which is small, firm and juicy; tree productive. Early July.

**WASHINGTON.**—A large plum, skin dull yellow, with a pale crimson blush; flesh firm; very sweet and luscious; freestone; August.



## PRUNES

Unless otherwise priced

|                                | Each        | Doz.   |
|--------------------------------|-------------|--------|
| Two years old.....             | \$.25       | \$2.50 |
| One year old, 4 to 6 feet..... | .20         | 2.00   |
| One year old, 3 to 4 feet..... | .15         | 1.50   |
| Selected .....                 | .35c to .50 |        |

Write for our low prices by 100 or 1000.

**GIANT.**—New; of immense size, dark crimson on yellow ground; good yielder; flesh firm, rich, sweet, delicious; good shipper.

**HUNGARIAN.**—Very large, dark red; juicy and sweet.

**ITALIAN (Fallenberg).**—Medium, oval, tapering at both ends; dark purple; flesh greenish yellow; separates freely from the stone; best for drying.

**PETITE (French).**—Small size, egg-shaped; violet purple; sweet, rich and sugary; very productive; standard for drying.

**SILVER.**—Seedling of the Coe's Golden Drop; tree vigorous and productive; fruit large and superior; excellent.

## GOOSEBERRIES

Write for our low price per thousand

Unless otherwise priced

|                            | Each  | 12     | 100    |
|----------------------------|-------|--------|--------|
| Two years old.....         | \$.10 | \$1.00 | \$6.00 |
| One year old.....          | .08   | .75    | 5.00   |
| Large selected bushes..... | .15   | 1.50   |        |

One year bushes by mail postpaid, 5c each; 35c dozen extra.

**OREGON CHAMPION.**—Berries very large, pale green color; very sweet and fine for table use and pies; bush strong, not very thorny; very prolific bearer; most popular and best commercial variety. Low prices by the thousand. Write.

**DOWNING.**—Large, light green; soft, juicy and good. Vigorous and very productive.

**RED JACKET (Josselyn).**—Of large size, smooth, prolific and hardy; of best quality; a wonderful crop per, with bright, clean, healthy foliage.

Prices, 1-year each 20c; per dozen \$2.00  
2-year each 25c; per dozen \$2.50

**INDUSTRY.**—Large, oval; dark red, hairy, rich and agreeable; vigorous and productive.

Prices, 1-year each 25c; per dozen \$2.50  
2-year each 30c; per dozen \$3.00

**SPECIAL PRICES.** If you intend to place an order for a quantity of trees or bushes, send us a list for quotations. We can probably save you some money. Let us try.



## CURRANTS

Low prices by the thousand

|                                  |        |        |        |
|----------------------------------|--------|--------|--------|
| Unless otherwise priced          | Each   | 12     | 100    |
| Two years old.....               | \$0.15 | \$1.50 | \$8.00 |
| One year old.....                | .10    | 1.00   | 6.00   |
| Extra large selected bushes..... | .25    | 2.50   |        |

One-year-old Currants sent by mail postpaid for 5c each, or 50c per dozen extra.

PERFECTION.—New; a late introduction of great merit. Our grower says: "You cannot say too much about the good qualities of this grand new sort." So, whether you plant ten or a hundred, plant a good proportion of Perfections, which is the largest, most productive, finest-flavored (rich, mild, sub-acid; plenty of pulp; few seeds), healthy, bright red currant to date.

1 year, each 15c; per dozen \$1.50; per 100 \$10.00  
2 year, each 20c; per dozen \$2.00; per 100 \$15.00

BLACK NAPLES.—Very large, black; valuable for jams and jellies.

CHERRY.—Large, deep red; rather acid; fine for preserving; valuable market variety.

FAY'S PROLIFIC.—A new Currant, larger than the Cherry; has less acid, and is more prolific.

WHITE GRAPE.—Large, yellowish white, valuable for the table; the finest of the white sorts.

We can also supply RED CROSS, WEIDLERS, LONDON MARKET, NORTH STAR and VICTORIA at regular prices.

## RASPBERRIES

|                                                       |        |        |        |
|-------------------------------------------------------|--------|--------|--------|
| Unless otherwise priced                               | Each   | 12     | 100    |
| Two years old.....                                    | \$0.10 | \$1.00 | \$6.00 |
| One year old.....                                     | .08    | .75    | 4.00   |
| One year, by mail postpaid, 5c each, 35c dozen extra. |        |        |        |
| Very low prices by the 1000.                          |        |        |        |

### RED VARIETIES

#### SUPERLATIVE IMPROVED

The berry is large and firm, with very small, brittle seeds; color, soft crimson. The healthy, vigorous growth, remarkable productiveness, hardiness, immense size, handsome, uniform shape and rich, luscious flavor makes the "Superlative" peerless among raspberries and from the shipper's standpoint a most desirable berry; disease resisting, and nearly a week earlier than the Cuthbert.

Price, each 10c; dozen \$1.00; per 100 \$7.00

CUTHBERT.—Berries very large, deep rich crimson; good for shipping; the most popular of all raspberries; stands the sun and heat well.

MARLBORO.—Very large and early; beautiful, bright scarlet; good quality; hardy and productive.

RED ANTWERP.—Earlier and about the size of the Cuthbert; rich flavor; bright red, and a good market or home berry for this climate.

### BLACK VARIETIES

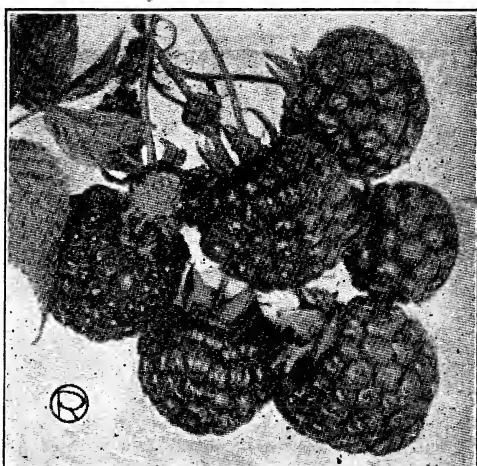
GREGG.—Of good size, fine quality; very productive and hardy. It takes the same position among Black Caps as Cuthbert among the red sorts.

KANSAS.—Strong, vigorous growers, standing extremes of drought and cold, and bearing immense crops; early; berries size of Gregg; of better color; jet black and almost free from bloom; firm, of best quality.

MUNGER.—A well-known and popular kind. Black, juicy and good size.

## DEWBERRY

LUCRETIA.—A trailing variety of the blackberry, ripening between the raspberry and the blackberry; fruit large, handsome, sweet and luscious. Price, each 15c; per 12, \$1.50 postpaid; by express or freight, 75c per 12; \$5.00 per 100.



Conrath—New Black Cap.

CONRATH—Early blackcap and of superior quality; 10 days earlier than Gregg, coming in with the earliest reds. A most desirable and profitable new sort. Price, each 15c; dozen \$1.50; per 100 \$8.00

NEW BOOK. Littooy's 48-pg. booklet, New Raspberry and Blackberry Culture. Written for Western conditions and endorsed by experts. Worth dollars to you. Only 45c postpaid or FREE with a \$5.00 cash order for nursery stock. (Other books pg. 5.)

## BLACKBERRIES

Unless otherwise priced

|                | Each   | 12     | 100    |
|----------------|--------|--------|--------|
| One year ..... | \$0.08 | \$0.75 | \$5.00 |
| Two year ..... | .10    | 1.00   | 8.00   |

One year, by mail postpaid, 5c each, 50c dozen extra.

KITTATINNY.—Large, roundish, conical, glossy black, juicy, sweet; excellent when fully ripe.

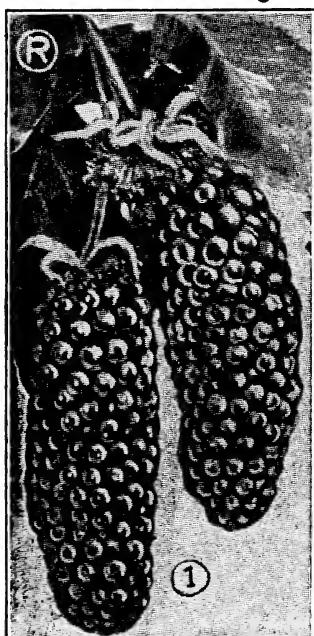
LAWTON.—Fruit large; very productive; well and favorably known; Oregon's most popular kind.

ELDORADO.—New. Very vigorous and hardy; yield is enormous; berries large, jet black, borne in large clusters, and ripen well together; sweet, melting and pleasing to the taste; no core, and keep eight or ten days after picking with quality unimpaired. 2-year, Price 15c each, \$1.50 per 12, \$10.00 per 100

EVERGREEN.—Introduced from Oregon; beautiful

lacinated foliage, which it retains all winter; berries long, black, sweet, rich and delicious; ripens from July to November; a fine berry for family use. 2-year, each 15c; dozen \$1.50; 100 \$10.00

HIMALAYA GIANT.—A new grand variety; an exceedingly strong, rampant grower of a trailing nature; a heavy cropper; the berries are large, juicy, coreless, sweet and firm, with a delicious aromatic flavor. Its deep-rooting qualities enable it to produce a large, firm berry even in a very dry season. 2-year, price 15c each; \$1.50 per 12; \$10.00 per 100



New Mammoth

### New Mammoth Blackberry

A grand addition to the list of Blackberries. The handsome, large, juicy berries are delicious. It is a rampant grower, of trailing habit; enormously productive and early. Fruit is enormous, specimens measuring two and one-half inches long; seeds small, soft and abundant; cores small and soft. In size and flavor it surpasses all other varieties of blackberries.

Prices: Two years old, 20c each; \$2.00 per 12, postpaid; by freight or express, \$1.50 per 12; \$10.00 per 100. One year old (or "tips") give such poor results we do not offer them.

### Burbank's Phenomenal

A most desirable, refreshing berry for the home garden. Of a bright crimson raspberry color; very productive, and most delicious of all berries for pies, canning, jellies or jams. Sweeter than the Loganberry and fine as a fresh table fruit.

Prices. Two years old, 20c each; \$2.00 per 12, postpaid; by express or freight, \$1.50 per 12; \$10.00 per 100. One year old (or tips) give such poor results we do not offer them.

### Loganberry

In great demand again for canning and drying. An exceedingly strong grower and an enormous bearer. The fruit is larger and longer than the blackberry and produced in immense clusters; color, dark red. Has a pleasant, vinous flavor, delicious and peculiar to this berry alone; fruit ripens early. It is excellent for the table, eaten raw or stewed, and for jelly or jam is without an equal.

Prices: Two year old, 15c each; \$1.50 per dozen, postpaid; by express or freight, \$1.25 per 12; \$7.50 per 100. One year old (or tips) give such poor results we do not offer them.

Note—Two-year-old transplanted Loganberry plants very scarce and stock limited.

## GRAPES

Unless otherwise priced

|                                   | Each       | 12     | 100     |
|-----------------------------------|------------|--------|---------|
| Two years old.....                | \$0.20     | \$2.00 | \$10.00 |
| One year old.....                 | .15        | 1.50   | 8.00    |
| Extra large and strong roots..... | 25c to .35 |        |         |

One-year grapes by mail each 5c; per dozen 40c extra.

If wanted in larger numbers, write for prices.

MCKINLEY.—A new early white grape of great merit; a strong, vigorous grower; thick, healthy foliage, and perfect self-fertilizing blossoms; bunches large and compact; fruit large, nearly round; very sweet, with no acid round the seeds, and no puckery taste in the skin; skin thin, green at first, then turning to yellow; bears handling and shipping well. Price, 1 year, 25c; 2 year, 35c

McPIKE.—New. Perfectly hardy, earlier than the Concord; bunches large, even and compact, berries even in size, covered with a beautiful bloom, blue-black in color; ripens uniformly; are of mammoth size, rivaling Black Hamburg, and of superb quality. Price, 1 year, 25c; 2 years, 35c

CAMPBELL'S EARLY.—Clusters large and handsome; berries large, round, black, with purplish bloom; flesh firm but tender; seeds few; flavor rich, sweet and slightly vinous. A strong and vigorous grower and ripens its fruit early. Berries do not drop from the clusters, and fruit keeps a long time in perfection. Price, 1 year, 25c each, \$2.50 doz.; 2 years, 35c each, \$3.00 doz.

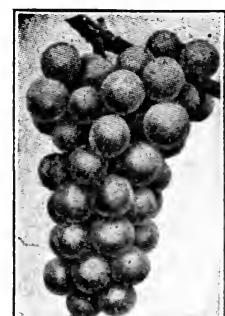
CONCORD.—Large, black grape, bunches compact, berries round, sweet and pleasant; very popular.

DELAWARE.—Best of our native grapes; grows freely and is perfectly hardy; ripens early; berries small, light red.

MOORE'S EARLY.—Bunch medium; berry large, resembling Concord, but more pulp, and is earlier.

NIAGARA.—Berry large, pale yellow; flesh tender and sweet; productive; one of the best white grapes.

WORDEN.—Bunch very large and compact; berry large, black; an improved Concord.



## OTHER GRAPES

It would take pages to list all the varieties of grapes grown on this Coast, especially in California. We list the most popular hardy sorts for general use.

## We Please Others—Let Us Please You

*Carrollton, Wash., June 21, 1913.*

Routledge Seed & Floral Co.

Gentlemen: We take pleasure in stating to you that the trees you sent us were the best we ever received, and everyone lived, and we are sending in another order.

LANE BROS.

*Marshfield, Ore., May 13, 1913.*

Routledge Seed & Floral Co.

Gentlemen: The Rose Bushes which I sent for a few months ago are doing fine, and I am much pleased with them.

Yours truly,  
MISS MINNIE HARKENSEL.

*Thomas, Ore., May 6, 1913.*

Routledge Seed & Floral Co.

Gentlemen: The strawberry plants and rose bushes I ordered in February arrived in good condition, and are doing fine.

Sincerely,  
MRS. A. HOLUB.

*Sebastopol, Cal., April 7, 1913.*

Routledge Seed & Floral Co.

Gentlemen: We were more than pleased with the shipment we received from you, and everything is doing beautifully.

Thanking you, I beg to remain.  
Sincerely yours,  
MRS. C. W. HOLLOWAY.

SELECTED  
STRAINS

## STRAWBERRY PLANTS

NONE BETTER  
FEW AS GOOD

Our strawberries are carefully grown, trimmed and packed in the best manner to insure their arrival in good, fresh condition. IF YOU WANT GOOD, STRONG, HEALTHY, VIGOROUS PLANTS AND TRUE TO NAME, SEND TO US. OUR PRICES ARE RIGHT; OUR PLANTS ARE O. K.



MARSHALL STRAWBERRIES—The above illustration, made from photograph, shows the heavy fruiting qualities and perfection of our SELECT TRUE STRAIN of the wonderful Marshall Strawberry. Last season we could not begin to fill all orders sent us. This variety is in great demand and we advise you to order early. Special prices over 2000.

## Routledge's Select Strain Strawberry Plants

**GOODELL**—A comparatively new berry, but of great merit. Every one who has tested it praises its good qualities.

On account of the size, color and general appearances the GOODELL will always bring fancy prices on any market.

Every strawberry grower, whether he grows for home or market, should "try out" this superb new variety that is so highly recommended by all. In flavor the GOODELL is unsurpassed; the berry is large, fine shape and solid red to the center. A most productive variety; not out-yielded by any. Don't let a season go by without planting out for trial at least a dozen plants.

**GLEN MARY (Early)**.—Growing more popular year by year. There are few other berries having a wider habitat than this variety, and it has proved profitable and successful wherever planted. A heavy producer of big, dark red beauties, its popularity is not to be wondered at. The berries are inset with bright-yellow and very prominent seeds which give them a beautiful appearance in the box. As a shipper it has no superior. Glen Mary, although a bi-sexual, is not a strong pollinator and we recommend that it be set with Wm. Belt.

**WM. BELT (Early)**.—This variety grows big crops of large, red, attractive berries that hang in clusters from powerful stems. The flesh is very rich and meaty and of deep red, which extends to the center. The berries are in every respect "extra fancy," and the fact that it grows, like its famous mate Glen Mary, under practically all conditions, makes it one of the most valuable varieties ever originated.

**MARSHALL**.—One of the best all-round strawberries; very large; dark crimson throughout; fine flavor; a superb market and table berry. In size, appearance, flavor and sweetness it is unsurpassed. A delicious table and canning berry, but not a long shipper.

**BRANDYWINE (Late—Bi-sexual)**.—Has been grown for 20 years in the East, and is now being largely planted by Western growers who have tried it out. Its large size, deep rich color and beauty of its fruit, excellent flavor and great productiveness makes it rank among the leaders. The fruit stems grow erect, and hold the berries well up from the ground. The foliage is ample, having a dark, leathery leaf which affords full protection to the bloom.

**OREGON IMPROVED**.—One of the finest and most satisfactory strawberries ever introduced. It always looks bright, fresh and attractive. The berry is very large, firm and handsome; rich, dark red, extending to the center. The flavor is rich, sweet and delicious. For table use and canning, it cannot be surpassed. The "Oregon" ripens early and continues in bearing until late in the season.

**MAGOON**.—Berry large, fine and excellent; sub-acid flavor; bears heavily and throughout the season.

**CLARK'S SEEDLING**.—The berry that has made Hood River famous; excellent shipper; berries large, firm and of delicious flavor; vines bear large crops; is especially adapted to dry soil.

**WILSON**.—A heavy bearer of fine, moderate-sized berries; sharp acid flavor; leading sort for canning.

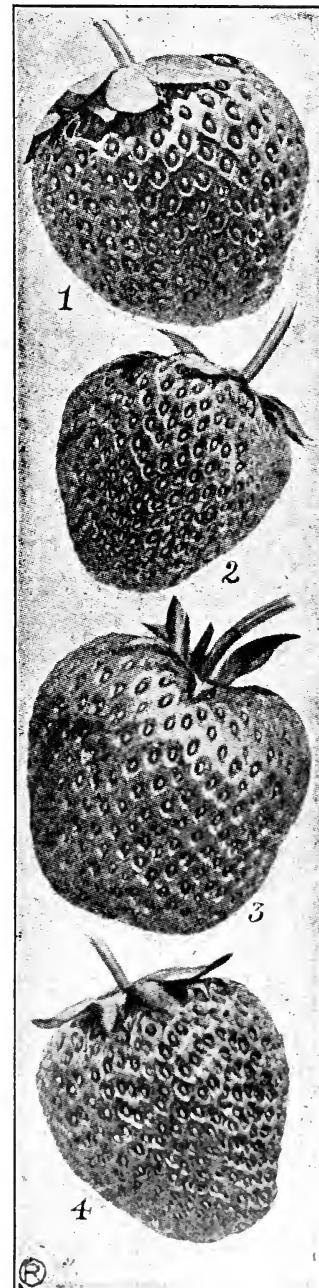
**GOLD DOLLAR**.—One of the earliest berries on the market. Fruit good, medium size, and attractive; rather tart; fine flavor; foliage heavy, large and spreading, which protects the blooms from early frosts.

### PRICE LIST OF STRAWBERRY PLANTS

|                             | By mail, postpaid | By express or freight. |         |
|-----------------------------|-------------------|------------------------|---------|
|                             | Dozen             | 100                    | 1000    |
| Brandywine .....            | \$.35             | \$1.25                 | \$ 0.75 |
| Glen Mary .....             | .35               | 1.25                   | .75     |
| Wm. Belt .....              | .35               | 1.25                   | .75     |
| Marshall .....              | .35               | 1.25                   | .75     |
| New Oregon (Improved) ..... | .25               | 1.00                   | .75     |
| Wilson .....                | .25               | 1.00                   | .60     |
| Goodell .....               | .50               | 2.50                   | 2.00    |
| Clark's Seedling .....      | .25               | 1.00                   | .60     |
| Gold Dollar .....           | .25               | 1.00                   | .60     |
| Magoon .....                | .25               | 1.00                   | .60     |

All our strawberry plants packed in special strawberry crates holding 500 plants each.

Not less than 500 plants of a kind at 1000 rate. Special low prices on 5000 or more. Write, stating quantity and kind wanted.



### GENERAL SHAPE

No. 1—Wm. Belt, New Oregon, Goodell; No. 2—Gold Dollar, Wilson, Clark's; No. 3—Marshall, Glen Mary, Brandywine; No. 4—Magoon.

STRAWBERRY CULTURIST — A 59-page book for 30c. See other books, page 5.

**DON'T** be misled by the fine catalogs sent out from the East. Buy Western grown plants and Western varieties, better berries than ever grew in the East. You know it!

## SPRAY PUMPS AND SPRAYERS

We can supply nearly twenty different styles, from a light hand pump to the large, powerful power outfits.

### HARDIE SPRAY PUMPS—"The Sprayer With the Trouble Left Out"

In the HARDIE SPRAYERS all working parts are brass. Perfect agitation of the spray mixture is secured by a mechanical agitator, which works with each stroke of the handle (notice cut carefully). The construction is simple. The pump can be repacked or plunger tightened easily and quickly. No pipe wrench needed. All the valves are round, hard brass balls.

The illustration below shows one of our No. 6 pumps mounted on a barrel. This manner of mounting the pump on the side of the barrel has many advantages. It sits low down, and is not in the way of low branches; there is no danger of tipping over, and the pump is in the deepest part of the barrel, and ALL the liquid can be pumped out. A filler door is hinged near one end, and a suitable strainer is furnished with each barrel. We will furnish barrel plates for mounting pump on end of barrel if desired.

**NO. 5 HARDIE BARREL PUMP.**—Used in our wheel outfit No. 21 and barrel outfit No. 14; is arranged for two lines of hose; will supply from two to three nozzles; plunger tube is  $1\frac{1}{8}$  inches inside diameter; stroke of plunger 4 inches; and when operated at 30 strokes per minute will convert into a fine spray 50 gallons of liquid per hour. Price, with iron air chamber, \$9.50; with brass air chamber, \$11.00.

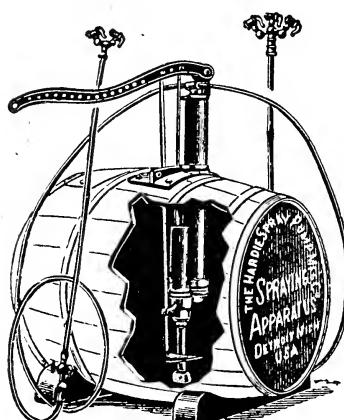
**NO. 6 HARDIE BARREL PUMP.**—Fitted for two lines of hose; will supply from four to six nozzles; inside of diameter of plunger tube 2 inches; stroke of plunger from  $4\frac{1}{2}$  to 5 inches; when operated at the rate of 30 strokes per minute will convert into a fine spray 120 gallons of liquid per hour. Furnished with flat plates for end of barrel or flat top tank, if so ordered, without extra cost. Price with iron air chamber, \$11.00; with brass air chamber, \$14.00.

**NO. 7 HARDIE BARREL PUMP.**—Fitted for two lines of hose; will supply six to eight nozzles; inside diameter of plunger tube  $2\frac{1}{4}$  inches; stroke of plunger  $4\frac{1}{2}$  to 5 inches; when operated at the rate of 30 strokes per minute will convert into a fine spray 240 gallons of liquid per hour. This pump is furnished with either round plates to fit side of barrel or flat plates for top of barrel. Price, with iron air chamber, \$14.00; with brass air chamber, \$16.00.

### THE "HARDIE" BARREL OUTFITS.

We can make up any outfit wanted, so we leave it to our customers to say what they want. Figure as follows: First, the price of pump; second, bamboo extension rod; third,  $\frac{1}{2}$ -inch spray hose wanted (any length), at 15c per foot. (Note.—We will furnish one single Vermorel or Bordeaux nozzle with each outfit free.) Fifth, if you want pump mounted on a No. 1 hardwood barrel, add \$3.00 more.

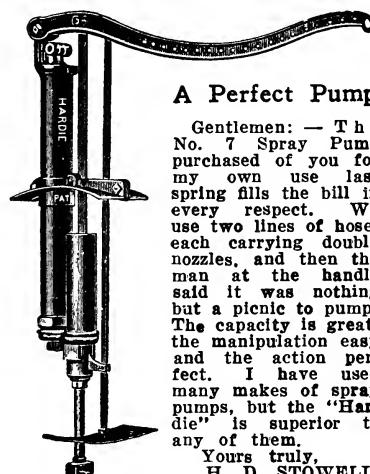
**HARDIE BARREL OUTFIT NO. 14.**—This is an ideal outfit for those who want a barrel pump, yet do not have enough spraying to pay to buy a larger size. For spraying tall trees you will need an extension rod extra (see prices elsewhere). This No. 14 outfit includes a No. 5 Hardie pump, 1 lead of best  $\frac{1}{2}$ -inch hose 10 feet long, 1 leakless stopcock, 1 spraying lance 18 inches long, one 2-cluster Vermorel nozzle. Price complete without barrel \$13.00; mounted on barrel \$17.00.



No. 6 Hardie Barrel Pump Mounted.

Guaranteed to do  
the work claimed  
or your money  
back.

For full informa-  
tion and descrip-  
tions of our twin  
cylinder, wagon  
and power spray-  
ing outfits send  
for our 50-page  
descriptive Spray  
Pump Catalog.



A Perfect Pump.

Gentlemen: — The No. 7 Spray Pump purchased of you for my own use last spring fills the bill in every respect. We use two lines of hose, each carrying double nozzles, and then the man at the handle said it was nothing but a picnic to pump. The capacity is great, the manipulation easy and the action perfect. I have used many makes of spray pumps, but the "Hardie" is superior to any of them.

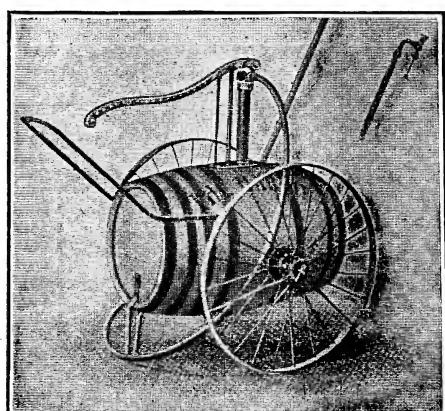
Yours truly,  
H. D. STOWELL.

### OUR SPECIAL OUTFIT NO. 17 $\frac{1}{2}$ .

—One No. 6 all-brass pump, mounted on barrel, one 15-foot lead best  $\frac{1}{2}$ -inch hose, one 10-foot bamboo extension rod with stopcock and drip guard, one 2-cluster Vermorel nozzle, all complete and ready for work; Price \$21.00; mounted on barrel \$25.00; extra lead of hose, extension and nozzle, \$5.00 extra.

**OUTFIT NO 17.**—Same as above only iron air chamber, \$8.00 less.

**OUR SPECIAL OUTFIT NO. 21.**—(See cut.) This outfit is designed to meet a long-felt want by the small fruitgrower and gardener. The 30-gallon barrel is mounted on strong wrought-iron wheels, 26 inches in diameter, with  $1\frac{1}{4}$ -inch tires. No. 5 pump, 5 feet best hose and couplings, 8-foot bamboo rod and leakless stopcock, 3 Vermorel nozzle. Price \$22.00.

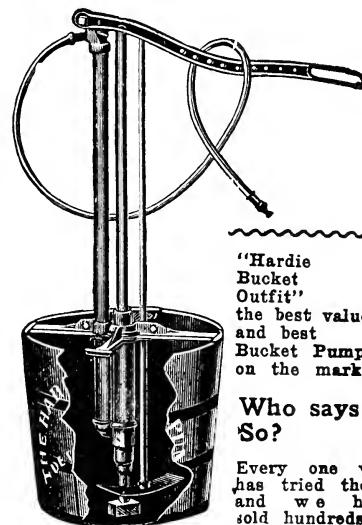


Hardie Wheel Outfit No. 21

FEW SPRAY PUMPS EQUAL AND NONE BETTER THAN WHAT WE OFFER

**THE HARDIE ALL-BRASS LEVER BUCKET PUMP.**—This pump (see cut) is a high-grade, all-brass bucket pump, especially designed to meet the long-felt want in this line. It is the only bucket pump on the market that has a mechanical agitator, and that is so designed as to always stand in position in the center of the bucket. It can readily be detached from the bucket by unscrewing a nut on the spider. This new device for holding the pump firmly in place in the center of the bucket enables the operator to carry the whole outfit with one hand. A practical outfit for light work. This is the only bucket pump in the market that is giving entire satisfaction. It is capable of developing a 200-pound pressure, and maintaining a 100-pound pressure while spraying with 35 strokes to the minute.

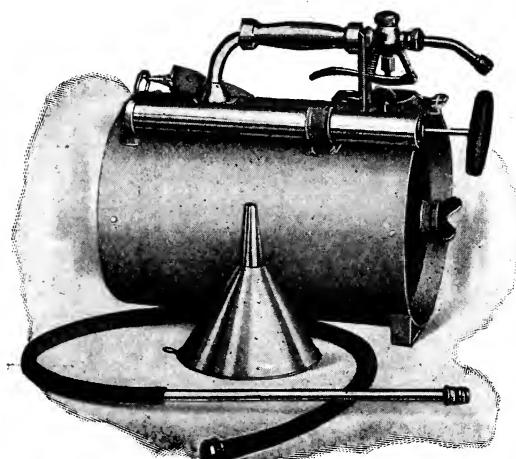
**THE HARDIE BUCKET OUTFIT NO. 10.**—Includes No. 4 Pump, one 5-gallon heavy wooden bucket, three feet best  $\frac{1}{2}$ -inch hose, one spraying lance 18 inches long, one spraying nozzle. It is designed for low spraying. Price \$7.00. To reach the tops of tall trees, you should order, extra, an extension rod. For price of extension rods, see page 105.



"Hardie  
Bucket  
Outfit",  
the best value  
and best  
Bucket Pump  
on the market.

Who says  
So?

Every one who  
has tried them;  
and we have  
sold hundreds.



Lowell Fountain Compressed Air Sprayer.  
(Packed for Parcel Post, 12 lbs.)

## Lowell Fountain Sprayer

The only perfect and satisfactory compressed air sprayer on the market. It's really a pleasure to operate them. They are so handy, work so perfectly and do not get out of order. Compared with other sprayers of this type they are worth double the price.

**Exclusive Points** (note the illustration).—It is devoid of complex or intricate parts, both automatic and positive in its action. One charge of air is sufficient to expel entire contents. Always ready, a few strokes of its plunger starts the continuous spray. No slopping or spilling of the spray.

**Construction.**—The heads after being seamed and riveted are dipped into molten solder, making it absolutely air-tight and the strongest Air Pressure Sprayer made—standing five times the air pressure necessary to operate. No safety valve is needed with the Lowell.

**Note.**—Note the shoulder strap for carrying, the automatic controlling valve under the handle, easily operated with one finger. You have perfect control of the spray and don't waste any.

**Saves Its Cost.**—This valve and lever will save the cost of the sprayer in making a given amount of solution do so much more work. None is wasted. with the Lowell. The lever cuts off instantly, at the operator's will. The short crook shown in the cut is used when spraying vegetables and small fruits. For reaching the under side of leaves of gooseberries, currants, grapes, etc., attach the hose and use a bent or straight extension rod. For tree work you can use as many two-foot brass extensions as is necessary to reach the desired height. The spray discharge is in the form of a dense fog or mist. There is absolutely no drip and therefore no shield or guards are needed.

Every city gardener or florist needs a Lowell Fountain Sprayer; clean and easy to operate; no need to get any spray on your hands or clothes; will last a lifetime with reasonable care. Try one at our store.



LOWELL  
FOUNTAIN  
SPRAYER

Note.—High spraying  
with extension rod—  
low spraying without.

We sell  
SPRAYS AND  
INSECTICIDES  
for all purposes. See  
pages 106-107 and 125.

The Lowell Fountain Compressed Air Sprayer is well adapted for the fruit grower, farmer, stockman, poultryman, florist and for general disinfectants. Full directions for operating with each machine.

### PRICES

No. 110, brass tank, \$7.00; No. 111, galvanized tank, \$5.00. (P. P. 12 lbs.)

**Extras.**—2-foot brass extension rods, each 50¢; vine attachment, 2-foot extension with bent neck, each 75¢. (P. P. 1 lb.)

**Note.**—Any little part can be furnished at any time. If wanted send for catalog showing parts numbered.

## Spray Pumps—Continued

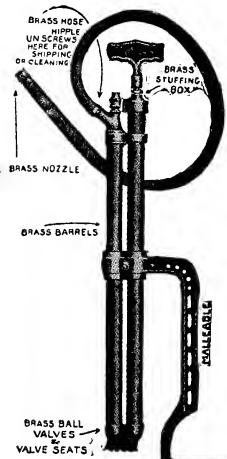
Don't wait until the fungi, such as mildew, etc., have attacked plant or tree; the fungicides are merely preventives and should be used in the fall or early in the spring. After the disease has developed, it may be too late to save the plant.

**O. K. BRASS BUCKET PUMP** (See cut).—Constructed entirely of brass. It is furnished with three feet of best quality rubber hose, detachable; malleable iron stirrup, three interchangeable brass nozzles which throw a fine mist, coarse spray or a solid stream. Pump is provided with large air chamber, with brass ball valves and valve seats.

Throws a continuous spray; neat in appearance as well as durable in construction. Much superior to pumps of this class offered heretofore. Look at illustration carefully.

Price \$2.75

(P. P. 7 lbs.)

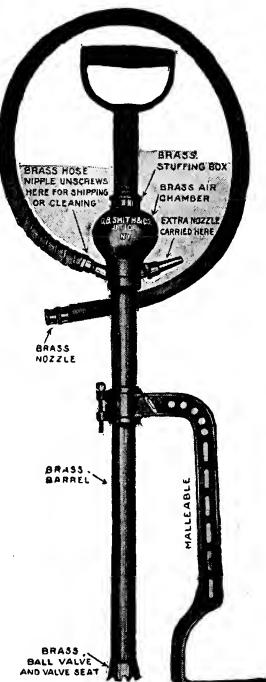


O. K. Bucket Pump

### NEW NO. 32 BUCKET PUMP

This Pump is made entirely of brass, with exception of the handle and stirrup, which are made of malleable iron. Has bulb shaped air chamber at top of cylinder, which is also made of brass, and causes the Pump to be operated with ease, and discharge a continuous steady spray. Furnished with three feet of heavy best quality rubber hose, detachable for cleaning, and three interchangeable nozzles, one fine and one coarse, for spraying trees, shrubbery, vegetables, disinfectants, etc., also a fire nozzle for fire protection. This Pump will throw a solid stream fifty feet. Often used for washing wagons, windows, etc. Will fit any pail or bucket.

Price, all complete, \$3.50. (P. P. 7 lbs.)



No. 32 Bucket Pump

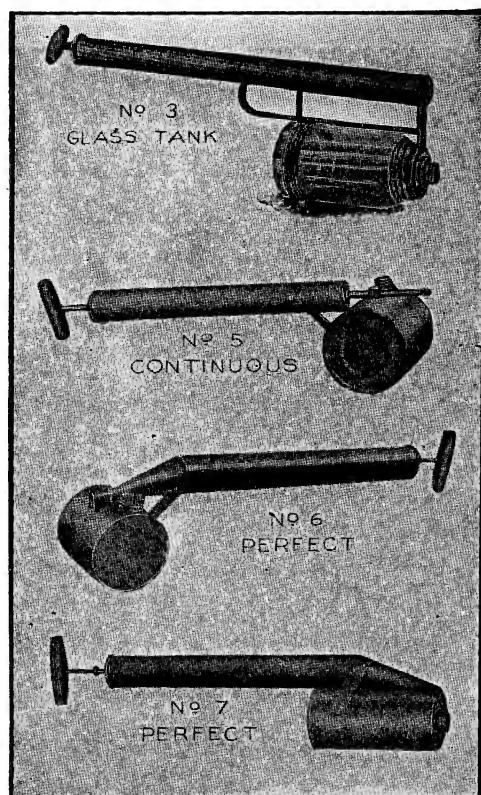
## High Grade, Liquid Hand Sprayers

**NO. 5 CONTINUOUS SPRAYER.**—A new continuous hand sprayer of real merit; the new style for 1914 is larger and greatly improved. As the name implies, is so constructed that it not only sprays on the downward stroke of plunger, but also when it is drawn back, thus causing a continuous mist-like spray, enabling one to spray three times as fast and with one-third the labor. Just the sprayer for children or women. Air chamber measures  $1\frac{1}{2}$  inches in diameter by 14 inches long. Has a  $\frac{1}{4}$ -inch steel plunger rod; special type plunger. Sprayer is fitted with a 3-16-inch brass ball check valve which is positive in its action and practically indestructible. Capacity, one quart. (P. P.  $1\frac{1}{4}$  lbs.) Each: Tin, 75¢; galvanized, \$1.00; brass, \$1.50

**NO. 6 PERFECT SPRAYER.**—This is a single tube sprayer. The air chamber measures  $1\frac{1}{2}$  inches in length by  $1\frac{1}{4}$  inches in diameter. Fitted with a  $\frac{1}{4}$ -inch steel plunger rod; special type plunger. Capacity, one quart. The special arrangement of the spraying tube is such that it thoroughly breaks up or atomizes all oils and solutions into a fine mist-like spray which penetrates all cracks and crevices. Adapted for all kinds of general spraying and is used very extensively for spraying disinfectants, etc. (P. P.  $1\frac{1}{4}$  lbs.) Each 50¢

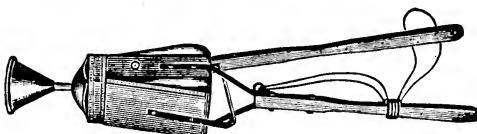
**NO. 7 PERFECT SPRAYER.**—Same size and capacity as No. 6, but the spray tank is put on the long way of the air chamber. Makes a very fine mist spray that carries well. Light and easily handled. Our most popular seller for general all-round use. (P. P.  $1\frac{1}{4}$  lbs.) Each 50¢

**NO. 3 GLASS TANK SPRAYER.**—This is an unusually well constructed hand sprayer and a most convenient type on account of the glass reservoir which is a quart Mason jar that is not affected by any kind of spray. You can have as many quart jars of different sprays (already prepared) as needed and when you wish to change take out one and put in another, with only a moment's delay. Has extra long air chamber, special plunger and two brass spray tubes. Throws a strong, fine spray in any direction. Metal part enameled red. (P. P. 8 lbs.) Each \$1.00



## Powder Sprayers or Blowers

These are used for applying Sulphur, Bug Death, Dry Bordeaux or insect powder of any kind. We offer three of the best and most practical powder sprayers made.



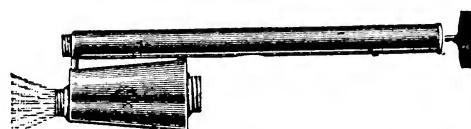
Acme Powder Gun No. 2

**ACME POWDER GUN NO. 1.**—Consists of a tight valveless bellows equipped with a distributing tube or nozzle, a funnel, spreader for diffusing the spray, and an elbow for placing the spray on the under side of the leaves. Handles of convenient length, bellows of fine russet leather, bellows sides basswood, painted vermillion. Capacity  $\frac{1}{4}$  pound, length 24 inches, weight 2 pounds. Directions on each gun. (P. P. 3 lbs.) Price \$1.00

**ACME POWDER GUN NO. 2.**—Similar to No. 1, but has a double bellows, arranged to give a continuous blast. Neck cord to sustain weight of the gun. If you wish to apply much powder buy a No. 2 Acme. Capacity  $\frac{1}{2}$  pound, length 33 inches, weight (P. P. 5 lbs.) (See cut.) Price \$1.75

**LOWELL POWDER GUN** (see cut).—Properly constructed of heavy tin. It is unnecessary to give the details of the mechanical constructions of the sprayer, as we give a positive guarantee with each sprayer that it is impossible to draw powder back into the cylinder pump, and if the powder is sifted through a screen and kept absolutely dry it will be impossible for the same to clog. With these features covered, the sprayer is sure to give satisfaction. The powder can holds one quart, and the sprayer is finished in aluminum. (P. P. 2½ lbs.)

Price 90c



Lowell Powder Gun

## Powder Dusters and Shakers

For using when applying Lime, Dust or Powder of any kind.



Dickey Bug Death Duster

For use on small gardens this is very handy. Saves powder, puts it on evenly and just where you want it. (P. P.  $\frac{3}{4}$  lb.) Each 35c

## ACRE AN HOUR SIFTER.

—Bucket shaped, straight sides, made of heavy tin, wood handle, holds 5 lbs. powder. A simple twist of the wrist does the work. As its name implies, you can cover an acre of plants an hour (P. P. 2 lbs.) Each 85c



Read about Bug Death. See pg. 107.

## SPRAY NOZZLES, SPRINKLERS, EXTRAS, ETC.

### LAWN SPRINKLER

Don't waste time holding the hose nozzle—use lawn sprinklers, and change positions as often as necessary.

**Pluvius Lawn Sprinkler** (see cut below) (P. P. 4 lbs.). Each \$1.35

**Monarch or Midget.**—Same style as above, only lower. (P. P. 2½ lbs.) Each \$1.15

**Busy Lawn Sprinkler** (see cut, next page).—Very desirable for medium sized yards. (P. P. 3 lbs.) Each \$1.00

**Fountain Sprinkler** (Circular, brass). (P. P. 1 lb.) Each \$1.00

**Little Wonder** (see cut No. 37).—Excellent in small yards. Covers 20 feet. (P. P. 1 lb.) Each 40c

### HARDIE BAMBOO EXTENSIONS.

These have seamless aluminum tubing, leakless stopcock, drip guard, lance and brass connections at each end. (Not mailable.)

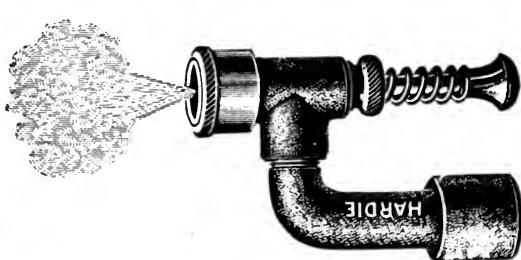
Price: 6-ft. \$2.25; 8-ft. \$2.50; 10-ft. \$2.75; 12-ft. \$3.00. These are the lightest and best Extension Rods ever offered, and well worth the difference in price.

### EXTENSION RODS—Ordinary

|         | Bamboo | Iron   |
|---------|--------|--------|
| 6-foot  | \$1.35 | \$1.00 |
| 8-foot  | 1.50   | 1.10   |
| 10-foot | 1.65   | 1.20   |
| 12-foot | 1.80   |        |



Bamboo Extension with "Lance" Attached.



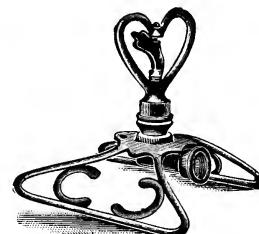
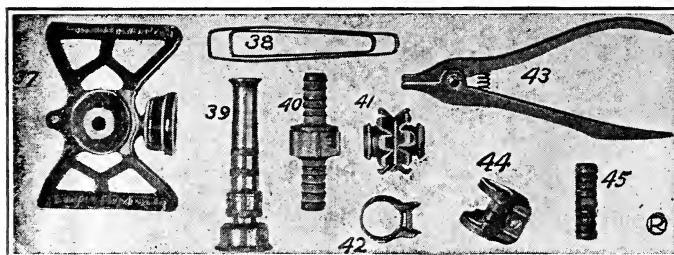
Vermorel Nozzle

### PRICES POSTPAID

|                                           |        |        |
|-------------------------------------------|--------|--------|
| Single Bordeaux (Best for Whitewash)..... | \$0.75 | \$0.75 |
| Double Bordeaux .....                     | 1.50   | 1.50   |

**CARTS**—If you are interested in a barrel or platform cart write for pamphlet.

## HOSE ATTACHMENTS, EXTRAS, ETC.



**Busy Sprinkler (see pg. 105).**

### GARDEN HOSE NOZZLES

- No. 31—Diamond Nozzle.—Best for sprinkling; adjustable from solid stream to fine spray. Each 40c; (P. P. 1 lb.)  
No. 38—Wire Hose Straps. Postpaid,  $\frac{1}{2}$ -in. or  $\frac{3}{4}$ -in. each 30; dozen 250  
No. 41—Dandy Hose Mender.—Best mender made, simple and quick; nothing to catch. Postpaid,  $\frac{1}{2}$ -in. 20c;  $\frac{3}{4}$ -in. 250  
No. 43—Wire Hose Pliers. (P. P. 12 oz.) Each 25c

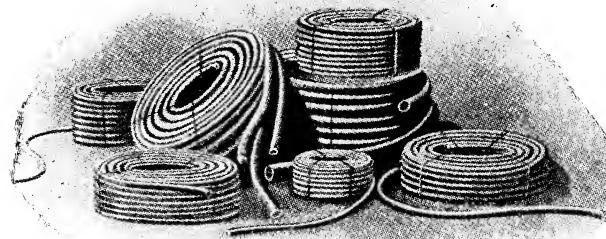
### No. 40—Hose Connections.

- $\frac{1}{2}$ -in. or  $\frac{3}{4}$ -in. pair 250 (6 oz.)  
Snap Hose Coupling.—New automatic device of real value. Each  $\frac{1}{2}$ -in. 25c;  $\frac{3}{4}$ -in. 35c (P. P. 6 oz.)  
Hose Washers. Dozen 10c postpaid  
No. 45—Brass Mender Tubes.  $\frac{1}{2}$ -in. or  $\frac{3}{4}$ -in. each 50; dozen 500 postpaid  
No. 42—Hose Clamps.  $\frac{1}{2}$ -in. or  $\frac{3}{4}$ -in. each 50; dozen 500 postpaid  
No. 44—Hose Clamps.—Double.  $\frac{1}{2}$ -in. or  $\frac{3}{4}$ -in. each 10c; dozen \$1.00 postpaid

## SPRAY AND GARDEN HOSE

We carry a good line of high-grade hose for spray pumps and garden purposes. We advise our customers to buy the best. It is cheapest in the end.

**SPECIAL SPRAY HOSE.**—The highest grade spray hose made; guaranteed. Price,  $\frac{1}{2}$ -in. only, 20c ft.



Garden and Spray Hose.

**XXX GRADE (Non-Kinkable).**—Guaranteed. This hose gives excellent satisfaction. Good enough for any ordinary spraying outfit, and by far the best hose for florists' or gardeners' use. We have this on 500-foot reels, and cut any length wanted. Price,  $\frac{1}{2}$ -in. 18c;  $\frac{3}{4}$ -in. 18c

**TROUT COTTON HOSE.**—Makes an excellent garden hose for those who prefer a cotton hose on account of lightness. Made of 4-ply canvass with a good, thick, rubber lining. Price, in 50-ft. lengths only, coupled,  $\frac{1}{2}$ -in. \$4.50,  $\frac{3}{4}$ -in. \$5.50.

## SPRAYS, INSECTICIDES, ETC.

**ARSENATE OF LEAD.**—For spraying trees and shrubs against the attacks of leaf-biting or leaf-eating insects of all kinds, such as green worms that appear on currant, cherry and rose bushes; especially valuable for spraying to prevent the codling moth. It comes in paste form. Use 1 oz. to a gallon of water. (Not mailable.)

1-lb. 25c, 2-lb. can 45c, 5-lb. \$1.00, 10-lb. \$1.90

**BORDEAUX MIXTURE.**—Very effectual in preventing and checking all fungous diseases, such as blight, black spot, rust and mildew, on trees and shrubs. Spray your gooseberry and rose bushes with Bordeaux in the fall soon as the leaves fall to prevent mildew. (Not mailable.)

Directions.—Winter strength 1 to 50, summer or when leaves are on the bushes 1 to 100.

Price: Qt. 60c; gal. \$1.25

**QUICK BORDEAUX ("Target Brand," powder form).**—The best Bordeaux on the market. All ready to mix with water at the rate of 1 pound to 10 gallons of water for winter; use 1 to 20 for summer. It is an excellent idea to sprinkle this under the rose bushes to prevent mildew.

Per lb. 15c; 5 lbs. 70c; 10 lbs. \$1.00 (Mailable)

### BLUESTONE (Vitriol)

Lb. 15c; per 100 lbs. market price

**BLACK LEAF "40."**—A concentrated solution of nicotine sulphate containing 40 per cent nicotine. Indorsed by the foremost experts of the U. S., for curl leaf, green and wooly aphids, trips, plant lice, codling moth, pear psylla and all leaf-eating insects. Descriptive pamphlet on request.

Prices:  $\frac{1}{2}$ -lb. can 85c (P. P. 1 lb.); makes 47 gals. spray;  $\frac{1}{2}$ -lb. can \$3.25 (P. P. 3 lbs.), makes 240 gals.;  $1\frac{1}{2}$ -lb. can \$12.50 (not mailable), makes 1000 gals. Full directions on can.

**SCALE DESTROYER ("Target Brand").**—An oil spray of decided merit for San Jose scale. Has many advantages over lime and sulphur. Use one gallon to 20 of water, after the leaves are off and up to time buds appear. For summer spray use one gallon to 100 gallons of water. Booklet tells why it is more effective and better to use than the disagreeable lime and sulphur. (Not mailable.) Price: Pt. 25c; qt. 85c; gallon \$1.00; 5-gal. \$8.75; 10-gal. \$7.50. Write for price per barrel.

You must keep the insects off your flowers and fruit if you want to be successful.

## Sprays, Insecticides, Etc.—Continued

### Niagara Soluble Sulphur Compound.—

Takes the place of Lime and Sulphur Solution. Not a new thing, but a new and better way. The sulphur is in the same chemical form as is the sulphur in the lime-sulphur solution, but being freed from the lime (the lime being found really detrimental), possesses a higher power, by fourfold, as an insecticide and fungicide.

Soluble Sulphur is very penetrating—going through and through all scale and insect crusts; whereas the lime in the lime-sulphur solution solidifies and neutralizes the sulphur, forming a harmless crust or coating. Soluble Sulphur does not paste up the surface of the tree, preventing the normal function of bark and leaves, but cleans the surface from all such hindrances to tree growth.

In Soluble Sulphur Compound all the disadvantages of the lime-sulphur solution are overcome. No heavy barrel to handle, return or pay for. No leakage and consequential loss and muss. No freezing and crystallization. Keeps indefinitely.

Dissolves readily, forming a permanent solution. The desired quantity of powder is thrown in spray tank full of water, is stirred or agitated a few moments and is then ready to apply.

### Amount to Use.

Soluble Sulphur Compound used at 10 pounds to 50 gallons of water (winter strength) is equal in spray value to 33 degree lime-sulphur solution used one gallon of solution to eight gallons of water.

Thus 100 pounds Soluble Sulphur Compound added to 500 gallons of water will make 511 gallons of winter spray.

Therefore 100 pounds of Soluble Sulphur Compound will make 61 gallons or nearly 14 per cent more spray, winter strength, than a 50-gallon barrel of lime-sulphur solution.

### Prices subject to change.

1-lb. can 20c; 5-lb. can 75c; 10-lb. can \$1.25; 25-lb. drum \$2.50; 50-lb. drum \$4.00; 100-lb. drum \$7.50

**LIME AND SULPHUR SOLUTION.**—Known and used everywhere. Is one of the best sprays for San Jose scale. Our liquid is properly prepared and all ready to mix just as you get it. Add 8 gallons of water to each gallon of the Lime and Sulphur Solution. There is no sediment to clog the sprayers. No boiling to be done, which saves time, labor and annoyance. Beware of cheap mixtures. We offer only "Highest Quality." Price: Qt. 25c, 1 gal. 50c, 5 gal. \$1.75, 10 gal. \$3.50. Write for price per barrel.

**WEED KILLER ("Target Brand").**—Guaranteed to destroy weeds, grass, poison ivy and all undesirable vegetation. Keeps roadways and paths free from weeds. Cleans tennis courts and ball diamonds. Cleans alleyways and fence corners. An effective combination of high grade chemicals which diluted in water at 1 to 50 destroys the roots as well as the tops of all vegetation. One gallon diluted will cover 100 to 150 square yards; and one or two applications are sufficient for an entire season.

Price: Pt. 40c, qt. 60c; gal. \$1.25, 5-gal. \$6.00. Write for price per barrel.

**SULPHUR POWDER.** Lb. 10c; 100 lbs. market price

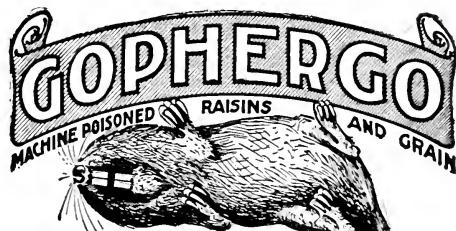
**SULPHUR CANDLES.** Each 10c; postpaid 15c

**TOBACCO DUST.**—Valuable as an insecticide and fertilizer. Sure preventive for green, fly and beetles as a mulch than the stems.

Lb. 10c, postpaid 30c; 10-lb. 75c

**TOBACCO STEMS.**

Lb. 10c, 3 for 25c; per 100 lbs. \$3.00



**SURE DEATH TO  
GOPHERS, SQUIRRELS, PRAIRIE DOGS,  
RABBITS, RATS AND MICE.**

No more use for traps. Guaranteed to do the work or your money back.

The only prepared poison that will get a gopher. The government advises poisoning as the most effective and best method of exterminating ground pests. Gophergo is a combination that never fails. They are sure to get it, they like it and they eat it. Gophergo has been tested and endorsed by many state experiment stations. If farmers and gardeners would carry a small can of Gophergo when walking around their places and leave a few pellets where "signs" are discovered the pests will soon disappear. Full directions on each can. Price: 10 oz. can 25c; 1½-lb. can 50c; 8¼-lb. can \$1.00. See parcel post rates inside front cover.



**BUG DEATH** (non-poisonous).—A most effective powder that kills the squash, cucumber and cabbage bugs, currant worm and all bugs and worms that eat the leaves of plants or vines. Bug Death is a wonderful protection against insects. Absolutely non-injurious. Contains no arsenic. Kills the bugs, prevents blight, revives and aids the healthy growth of plants and

shrubs. Does the work as nothing else will. You can't afford to be without it. Bug Death is generally applied dry, but is very effective mixed with water and sprayed. Use 1 pound to 2 gallons water. Price: 1-lb. cans with perforated shaker tops, 25c; 3-lb. 50c; 5 lbs. 75c; 10 lbs. \$1.25; 25 lbs. at 12c lb.; 100-lb. kegs, \$10.00. See parcel post rates inside front cover.

Send for pamphlet, "Bug Death," which gives full information.

**BLUE LABEL SLUG DESTROYER.**—This is the first powder of its kind that we ever found to positively kill slugs and keeps them away from young plants. Full directions on each package. Put up in ½-lb. 25c; 1½-lb. 50c and \$1.00 packages.

**POTASSIUM SULPHIDE.**—(Liver of Sulphur.) One of the best preventives of mildew on roses and berry bushes. Dissolve ½ ounce in one gallon of hot water. When cold apply as a spray. Price: 1 oz. 10c, 1-lb. can 50c.

**GRAFTING WAX.** ½-lb. 10c, postpaid 15c; lb. 35c

**WHALE OIL SOAP.**—For aphids, plant lice, etc. 1-lb. 10c; 10-lb. 85c

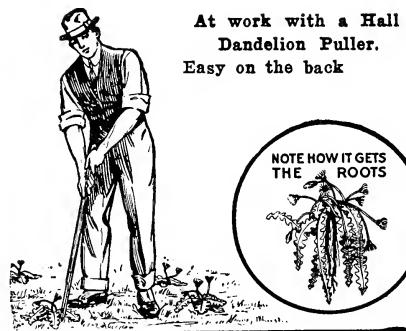
Remember, we have the right kind of sprayers to apply above remedies economically.

## HALL DANDELION PULLER

Here is a tool that gets the dandelion roots and all, without marring or digging up lawns. It is a waste of time and energy to cut dandelions off without getting all the roots.

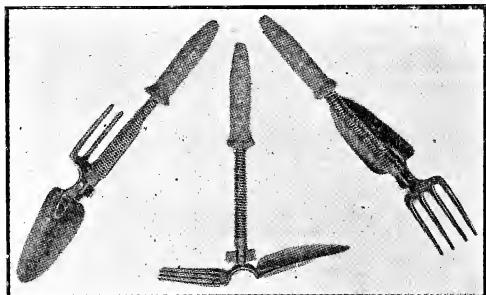
It is the easiest and quickest way to clear lawns of dandelions and other weeds. Just push the blade down in the ground close to the weed, press towards the weed and pull up. The only tool that does this job effectually. Note the hook near point of blade. This is the patented feature that does the work. It catches the roots, but does not cut or break them. The slot prevents dirt from clogging the hook. The blade is made of polished steel and will last a lifetime. Well finished.

Handle 30 inches long, steel part 8 inches.  
Price 50c. (P. P. 1 lb.)



## "ALCA" GARDEN TOOL

In garden or greenhouse, in all seasons, this new tool will be found very handy. This remarkable combination tool, in plain words, is a trowel, fork, hoe, weeder and dibble—all in one. While weeding, digging and planting and transplanting flowers and plants, you are saved the annoyance of missing tools. Your five-fold paraphernalia consists of a handy combination tool made of the best selected material—stout and compact—still occupying a small space and weighing less than a pound. A spring releases the particular tool you desire and the fret and worry of handling five separate tools is avoided. You can easily figure out what you save in cost, energy and temper. Price 60c. (P. P. 1 1/4 lbs.)



"Alca" Garden Tool.

## WEEDERS

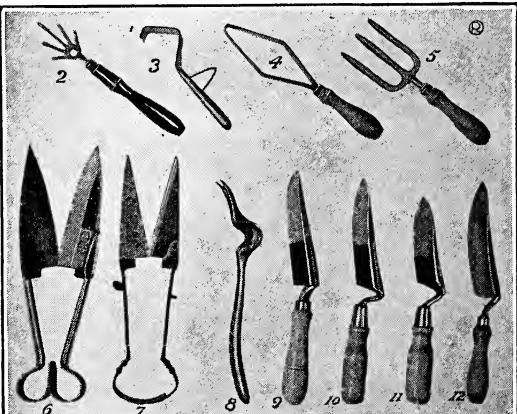
|                                                  | Each |
|--------------------------------------------------|------|
| No. 2—Excelsior.—Five claws (P. P. 1/2 lb.)      | 15c  |
| 3—Langs.—Very handy and popular (P. P. 1/2 lb.)  | 20c  |
| 4—Diamond.—Fine for small plants (P. P. 1/2 lb.) | 20c  |
| 5—Fork.—Fine for light digging (P. P. 1/2 lb.)   | 15c  |

## GRASS SHEARS

|                                                                    |        |
|--------------------------------------------------------------------|--------|
| No. 6—B. B. A.—6 1/2-inch; blade highest grade, (P. P. 1 1/4 lbs.) | \$1.75 |
| 7—5 1/2-inch blade; good value) (P. P. 1 lb.)                      | 40c    |

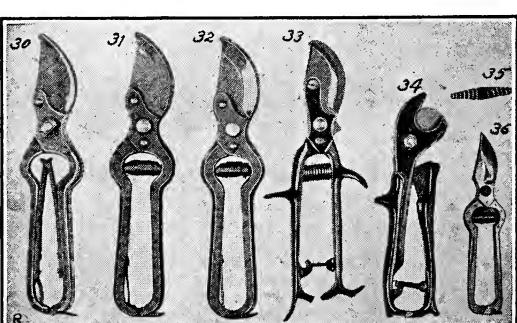
## TROWELS

|                                                 |     |
|-------------------------------------------------|-----|
| No. 9—Solid steel; 6-inch blade (P. P. 1 lb.)   | 35c |
| 10—Very strong; all steel; 6-inch (P. P. 1 lb.) | 50c |
| 11—Same as No. 10; 5-inch (P. P. 1 lb.)         | 40c |
| 12—Best low-priced; 6-inch blade (P. P. 1 lb.)  | 15c |
| 13—Maynard.—6-inch; highest grade (P. P. 1 lb.) | 60c |



## PRUNING SHEARS

|                                                                                                                   |        |
|-------------------------------------------------------------------------------------------------------------------|--------|
| No. 36—5 1/2-inch, nickel plated, spiral spring, for rose bushes or light pruning (P. P. 4 oz.)                   | \$1.00 |
| D-7—Same style as 36, but stronger and heavier (P. P. 2 lbs.)                                                     | \$1.35 |
| 37—Same as above, 6 1/2-inch (P. P. 8 oz.)                                                                        | 1.25   |
| 31—9-inch, bright finish, polished blade; good for hard service (P. P. 1 lb.)                                     | \$1.00 |
| 32—9-inch, same as No. 31, only black finish.                                                                     | 75c    |
| 30—9-inch, full polish, double brass spring, extra good shear (P. P. 1 1/4 lbs.)                                  | \$1.50 |
| R-35—9-inch, Swiss, full polish, with extra blade; very fine steel, spiral spring, ratchet nut (P. P. 1 1/4 lbs.) | \$1.75 |
| 33—Black, with polished blade; best cheap shear (P. P. 1 lb.)                                                     | 35c    |
| 35—Extra spiral springs Postpaid                                                                                  | 15c    |

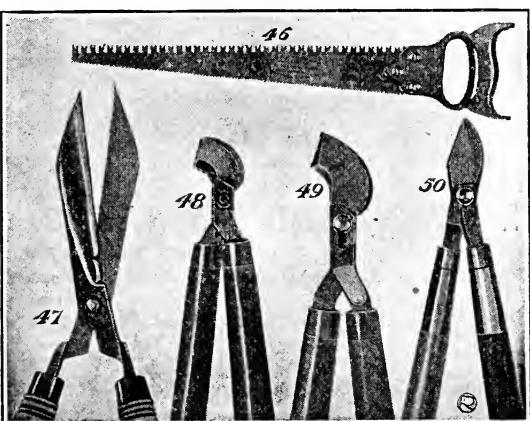


NOTE—We have other styles of Shears with long, pointed blades. Look our stock over.

## PRUNING SAWS

|                                          |     |
|------------------------------------------|-----|
| No. 46—Duplex; double edge; 16-inch..... | .75 |
| 18-inch (P. P. 1 lb.).....               | .80 |
| California; curved blade, 16-inch.....   | .75 |

18-inch (P. P. 1½ lbs.).....\$1.00



## TREE PRUNERS

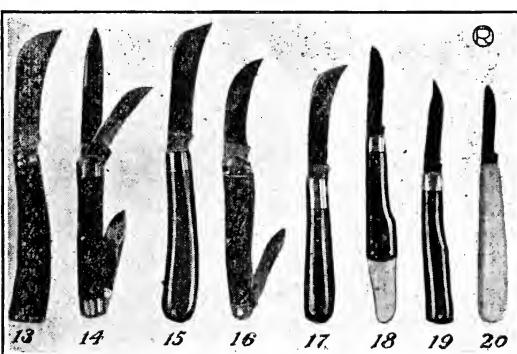
Long handle tree pruners indispensable for pruning tall trees.

Clyde.—No. 15, with spring; 6 feet, 75c; 8 feet, 90c; 10 feet \$1.00; 12 feet \$1.15. Cannot go by mail; freight or express, purchaser's expense.

Note.—This pruner has spring to release blade after cutting branch; no sticking or catching; extra blades 25¢ each, postpaid.

## BUDDING KNIVES

|                                                               | Postpaid |
|---------------------------------------------------------------|----------|
| No. 20—Ivory handle; 1 blade of best steel.                   | \$1.00   |
| No. 20½—Same as above; black handle.....                      | .85      |
| No. 18—Ebony handle; stationery ivory bark opener .....       | 1.00     |
| No. 19—Wood handle; with good steel blade..                   | .85      |
| No. 14—Horn handle; for budding or pruning;<br>3 blades ..... | 1.50     |
| No. 16—Horn handle; for budding or pruning;<br>2 blades ..... | 1.00     |
| M. & G. Stationary wood handle.....                           | .30      |



## PRUNING KNIVES

|                                                 | Postpaid |
|-------------------------------------------------|----------|
| No. 15—Large wood handle; hook blade.....       | .85      |
| No. 17—Same as above, only smaller .....        | .50      |
| No. 13—Large horn handle; excellent blade....   | 1.25     |
| M. & G. Plain wood handle; stationary blade.... | .50      |

## GRAFTING KNIVES

|                                               | Postpaid |
|-----------------------------------------------|----------|
| No. 1—M. & G. wood handle; stationary blade.. | .35      |
| No. 2—Same as above, only smaller.....        | .25      |

## GARDEN OR ROSE STAKES

Cedar.—Round; painted green, white top. Per dozen.  
3 ft. 75c; 3½ ft. 80c; 4 ft. 85c; 5 ft. \$1.25;  
6 ft. \$1.75; 8 ft. \$2.25.

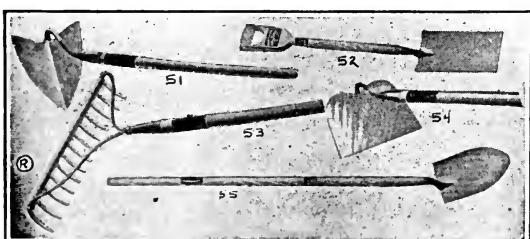
Bamboo.—Very desirable and inexpensive for vegetable or flowering plants of any kind. The larger sizes are excellent for dahlias, tall growing perennials, roses, etc.

Note—State for what purpose you want them, as we have them from pencil thickness (¼-inch) up to 1¼ inch.  
Price per dozen: 1¼-ft. 10c; 2-ft. 15c; 3-ft. 20c;  
4-ft. 25c; 5-ft. 30c; 6-ft. 50c; 8-ft. 75c. Write  
for low price by the 100 or 1000.

## SPRINKLERS

SPRINKLING CANS.—Strong and well made.  
4-qt. 30c; 6-qt. 40c; 8-qt. 50c; 10-qt. 60c; 12-qt. 75c

SCHOLLY PLANT SPRAYERS.—Made of best quality rubber and most convenient for spraying house plants.  
Small, \$1.00 (P. P. ¼ lb); Large, \$1.25 (P. P. 1 lb.)



## GARDEN TOOLS

Space will not permit us to illustrate and describe all our garden tools. Call or write for prices on anything wanted.

|                                             |        |
|---------------------------------------------|--------|
| No. 51.—Best garden hoe; solid steel shank. | 75c    |
| 52.—Maynard spade, best quality             | \$1.50 |
| 53.—Solid steel rake, 13 teeth.             | 80c    |
| 54.—XXX flat hoe, best quality.             | 75c    |
| 55.—Maynard steel shovel, very best.        | \$1.50 |

The above are the very best. We have cheaper.

Turf Edgers.—Solid steel shank. 60c

Potato Forks.—Four tines, 4-foot handle. \$1.35

Potato Hook.—Five round tines; goose neck. \$1.00

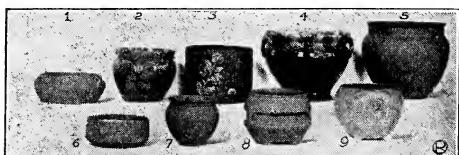
Floral Set.—Three pieces—hoe, spade, rake; fine for light gardening. \$1.25

Lawn Rake.—Reversible, 24 teeth, 60c; 36 teeth, \$1.00

Grass Hooks or Sickles.—Village blacksmith, hand-forged, 45c; bent handle, 50c. (P. P. 1 lb.)

Sickle Stones.—Three grades. (P. P. ¾ lb.)  
5c, 10c and 15c

To get the cost by PARCEL POST to your city on above, take the weights given and consult the zone rates inside front cover.



## JARDINIERES, ETC.

We carry in stock a large and complete assortment of the best styles and latest designs. Limited catalog space will not permit us to illustrate and describe them, but we are sure we can please out-of-town customers if they will give us inside measurements required, and say how much they want to spend.

We also have in stock 12 to 18-inch garden and porch vases or urns of fancy designs in pottery and wood. These are very ornamental and desirable for flowering plants, palms, etc. Prices on request.

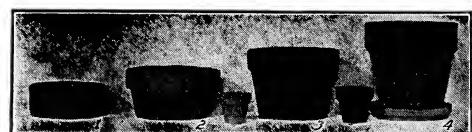
## LABELS

The tree and pot labels we offer below are strictly No. 1 labels, smooth and well wired. The painted labels are "really painted," not dipped in oil. Ordinary lead pencil writing on the painted labels is always readable; it don't wash off.

| TREE LABELS. (P. P. 4 lbs.)  | 25     | 100    | M.     |
|------------------------------|--------|--------|--------|
| Painted, copper wired .....  | \$0.15 | \$0.25 | \$1.50 |
| Unpainted, iron wired .....  | .10    | .15    | 1.25   |
| Aluminum, copper wired ..... | .60    | 2.00   |        |

### POT AND GARDEN LABELS.

|                                       |     |     |      |
|---------------------------------------|-----|-----|------|
| Painted, 4-in. (P. P. 3½ lbs.)        | .10 | .20 | 1.25 |
| Painted, 5-in. (P. P. 4½ lbs.)        | .15 | .25 | 1.50 |
| Painted, 6-in. (P. P. 5 lbs.)         | .15 | .30 | 2.00 |
| Painted, 8-in. (P. P. 1½ per C.)      | .20 | .50 | 5.00 |
| Painted, 10-in. (P. P. 2 lbs. per C.) | .25 | .75 | 6.00 |



## STANDARD POTS, ETC.

Fig. 1—Fern Dish Filler; 2—Bulb Pan; 3—Azalia or Fern Pot; 4—Flower Pot. All styles same prices.

| Prices.      | Saucers.  |
|--------------|-----------|
| Each. \$0.20 | Doz. .... |
| .03          | .30       |
| .04          | .40       |
| .06          | .60       |
| .10          | .90       |
| .12          | 1.20      |
| .16          | 1.75      |
| .25          | 2.50      |
| .40          | ....      |
| .60          | ....      |
| 1.50         | ....      |

## FLORISTS' SUPPLIES

### Glazing Points (P. P. 1½ lbs.)

Per M. 75¢  
Per gal. \$1.50

Mastica. Each \$1.50

Mastica Machines. Each \$1.50

Moss. Lb. 5c; 100 lbs. \$3.00

Putty bulbs (P. P. 12 oz.) Each \$1.00

Tin foil. Lb. 20c; 10 lbs. \$1.50

Grafting wax. ¼ lb. 10c; lb. 35c

Raffia. Lb. 25c, postpaid 50¢

### WIRE HANGING BASKETS (Not mailable)

6-in. 16c; 8-in. 20c; 10-in. 25c; 12-in. 35c; 14-in. 50c

### WIRE DESIGNS (Not mailable)

We can supply wire designs for floral pieces, any style. Write for prices on anything wanted.

## GARDEN SEEDERS, CULTIVATORS, ETC.

### Hall E-Z Garden Cultivator

Just the right size and the right price for the average garden maker. Everyone who makes much garden should have one, as it reduces the labor one-half.

A combination tool for all kinds of garden work, from first plowing to the last cultivation. Does away with the tiresome hoeing, weeding, etc. Makes gardening a pleasure.

Equipment consists of a Plow for cultivating, hillling, plowing; a Rake for light cultivating, harrowing, weeding; a Weeder for cutting and loosening soil; a Diamond Point for making seed furrows, hillling, etc.; a Bull Tongue for cultivating between narrow rows.

The patent spring device as shown in cut between the handle and tool is an exclusive feature of the Hall Cultivator. It causes the tool to run even and steady without jar on the arms.

The handle can be adjusted to correct height for a child or tallest man. Power is applied direct to axle, making it easy running. Sixteen-inch wheel. Note the narrow, compact build of this tool, enabling one to use it between narrow rows and close up to the plants. Weight, complete, 15 lbs.

Price: Complete, \$4.00 (Not mailable)



E-Z  
Garden  
Cultivator  
No. 1.  
Complete with  
five tools,  
one reversible.  
Price, \$4.00.

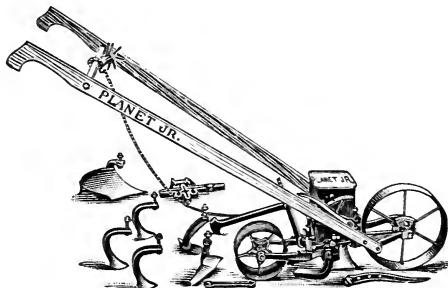
### Cahoon Broadcast Seeder

The standard broadcast seed sower, made of steel, iron and brass, will last a life time. Has force feed. Every farmer should have one, as it sows perfectly any kind of seed or grain. Full instructions with each machine. Price \$3.50.

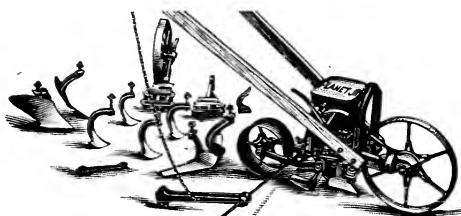
## PLANET JR. GARDEN AND FARM TOOLS.

For 40 years Planet Jr. Garden Tools have stood the test of world-wide usage, and are recognized in every known country as the highest type of garden implement. In Europe where labor is cheapest Planet Jrs. are in constant use. How, then, can you afford to be without them where labor is both high and scarce?

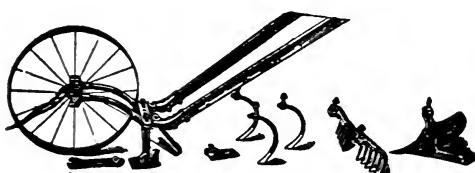
We cannot tell you all about Planet Jrs. in this catalog, but will send you the beautiful 64-page Planet Jr. book on request.



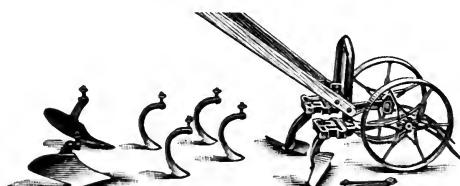
Planet Jr. No. 4 Combined Hill and DrillSeeder, Wheel Hoe Cultivator and Plow.



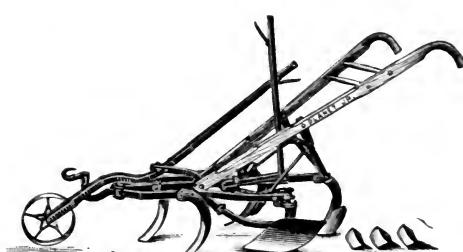
Planet Jr. No. 25 Combined Hill and Drill Seeder and Double Wheel Hoe, Cultivator and Plow.



No. 16 Single Wheel Hoe Cultivator



Planet Jr. No. 12, Double Wheel Hoe



No. 8 Planet Jr. Horse Hoe and Cultivator

### NO. 4 PLANET JR. COMBINED HILL AND DRILL SEEDER, WHEEL HOE, CULTIVATOR AND PLOW.—

This tool combines in a single convenient implement a capital hill-dropping seeder, a continuous row-seeder, an admirable single wheel hoe, an excellent furrower, a capital wheel cultivator and a rapid and efficient wheel garden plow.

Price, complete, \$12.00; weight, 53 lbs.; as a seeder only, \$10.00. Holds 2½ quarts of seed.

### NO. 25 PLANET JR. COMBINED HILL AND DRILL SEEDER AND DOUBLE WHEEL HOE, CULTIVATOR AND PLOW.—

This new combined machine is intended for gardeners who have a large enough acreage in crops for a Double Wheel Hoe to be used to good advantage, and yet prefer not to buy seeders and wheel hoes separately.

The change from Drill to Wheel Hoe and back again is quickly made, and the entire combination is one we can heartily recommend and guarantee satisfactory.

Price, \$14.50, steel frame; weight, packed, 50 lbs. Holds 2½ quarts of seed.

**NO. 6 Hill and Drill Seeder Wheel Hoe Cultivator and Plow.** Price, complete, \$14.50: plain, \$12.00

**NO. 3 Hill and Drill Seeder.** Price \$11.50

### Planet Jr. Single Wheel Hoes

**NO. 16**—See cut. Just the tool for the home garden. Price, \$6.50; NO. 17, \$5.75; NO. 17½, \$5.25; NO. 18, \$4.25. See Planet Jr. catalog for full information.

### Planet Jr. Double Wheel Hoes

**NO. 12**—See cut for general use. Price, \$7.85; NO. 13, \$5.50; NO. 13½, \$6.85; NO. 14, \$9.00.

See Planet Jr. Catalog for full information and new 1914 attachments.

**DISC HOES** for Wheel Hoes. Per pair \$3.00

### NO. 8 PLANET JR. HORSE HOE AND CULTIVATOR.—

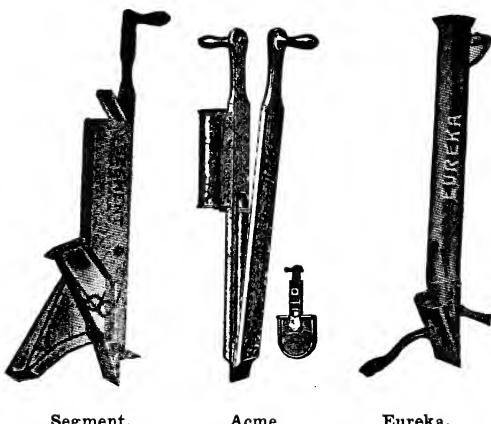
Without a doubt the best on the market. It is so strongly built as to withstand incredible strain, yet it is light and easy to handle. It opens and closes furrows, hoes right up to the plants without danger of injuring, throws dirt to or from the row and throws back from center again. (See cut.) Price, complete, \$10.50

### PLANET JR. TWELVE-TOOTH HARROW, CULTIVATOR AND PULVERIZER.—

With the Twelve-Tooth Harrow you go as deep or shallow as you like, come up close to row without injuring plants, cut out all the weeds, stir the soil and mellow and fine it as with a garden rake. You widen and narrow as you please between 12 and 32 inches. It's a special favorite with strawberry growers, market gardeners and truckers.

Price, complete, \$10.50

**REMEMBER** Planet Jr. 72-pg. Catalog, illustrated, descriptive and up to date, with complete price list free on request.



Segment.

Acme.

Eureka.

## CORN PLANTERS

**Acme.**—Two-hand type; length 35 inches; a popular and successful planter. Strong and durable; sure in its work. Will plant corn, peas and beans. (See cut.) (P. P. 6 lbs.) Price \$1.00

**Segment Automatic.**—One-hand type; length 34 in. An excellent, handy and serviceable planter. Can be adjusted for corn, beans or peas. You plant accurately and evenly as fast as you walk. (See cut.) (P. P. 7 lbs.) Price \$1.50

## POTATO PLANTERS

**Eureka Tubular.**—Length 36 inches. This is the lightest and best tubular planter made. With this planter one man can plant several times as much ground without getting a lame back as he can plant by hand. The planter locks itself as it is lifted out of the ground, so that the next potato may be dropped in at once, and opens automatically as the top of it is moved forward in walking. (See cut.) (P. P. 5 lbs.) Price \$1.50

**Pingree.**—Practically the same as the Eureka, without the tube down the handle. You lift the planter up and drop the potato in the lower part. It is light and a very satisfactory planter. (P. P. 5 lbs.) Price \$1.25

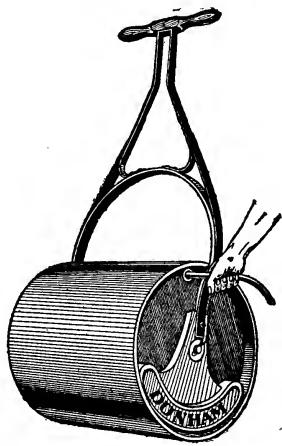
## DUNHAM Water-Weight LAWN ROLLERS

These are the most satisfactory and serviceable rollers on the market. Important features: Easy running, roller bearing, electric welded, no rivets, cannot leak, perfectly smooth drum, and can be made heavy or light, according to the work required. (See cut.) Easy to fill or empty, and the largest size can be operated by one man.

### The Rolling of Lawns

It is absolutely impossible to keep a lawn, large or small, in perfect condition without rolling, no matter how many other things may be done in taking care of it. This fact should be well understood by the large and growing army of Americans who take pride in the beauty of the lawns surrounding their city or country homes. Ask for booklet—"The Proper Care of Lawns"—free. We carry the following sizes in stock. We will gladly get larger sizes on orders.

- No. W. B. 3.—One section, 14x20 inches. Weight, empty, 60 lbs.; filled, 200 to 300 lbs. Price \$11.00
- No. W. B. 5.—One section, 18x24 inches. Weight, empty, 75 lbs.; filled, 300 to 500 lbs. Price \$13.50
- No. B. W. 7.—One section, 24x24 inches. Weight, empty, 125 lbs.; filled, 500 to 800 lbs. Price \$18.50
- No. W. B. 11.—Two sections, each 18x12 (total length, 24 inches); weight, empty, 100 lbs.; filled, 300 to 500 lbs. Price \$20.00
- No. W. B. 13.—Two sections, each 24x16 (total length, 32 inches). Weight, empty, 270 lbs., filled with water, 650 lbs., with sand, 1000 lbs. Price \$27.50



Dunham Roller.

See how easy it is to fill. Take out the plug and fill from a hose, or use dry sand for heavier weight.

## LAWN MOWERS

**Great American Ball-Bearing.**—Open cylinder, five blades, 10-inch wheel, solid cast steel cutting knives, hardened in oil; steel balls of highest grade, placed in dust-proof steel cup; cuts close; easily adjusted. 15-inch, \$10.50; 17-inch, \$12.50; 19-inch, \$13.50; 20-inch, \$15.00.

**Great America.**—Closed cylinder, three blades, 7-inch wheel; hardened and tempered solid cast steel cutting knives, positively self-sharpening. 12-inch, \$7.00; 14-inch, \$8.00; 16-inch, \$9.00; 18-inch, \$10.50.

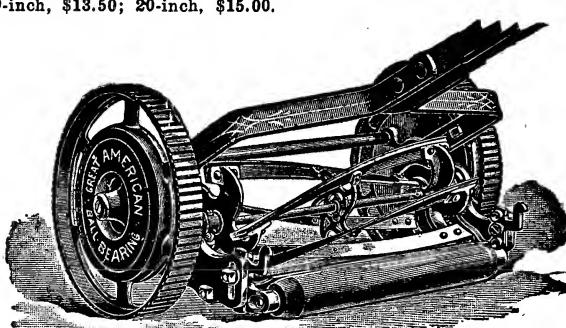
**Faultless.**—Best cheap lawn mower for money; has 3 blades tempered tool steel; good adjustment, 14-inch. \$3.50; 16-inch \$4.00.

## GRASS CATCHERS

**Success.**—Most handy and durable; canvas sides, galvanized bottom. Always ready. No. 1, for 14 to 17-inch mowers, \$2.00; No. 2, for 18 to 21-inch mowers, \$2.50.

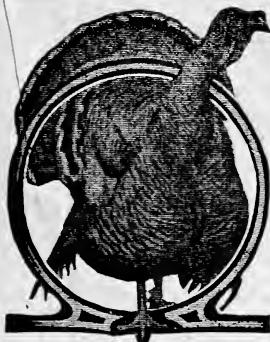
**Simplex.**—Good, cheap grass catcher. Common sides, galvanized bottom wire frame. No. 1 for 14 to 17-inch mower, \$1.50; 18 to 21-inch \$2.00.

For Grass Hooks, Shears, Sickles, etc., see pages 108-109.



Great American Lawn Mower.

R. R.'S EVERGREEN LAWN GRASS SEED and WONDER ODORLESS FERTILIZER makes those beautiful green, velvety lawns so much admired. See pgs. 41 and 47.



# Routledge Seed & Floral Co's

## UP TO DATE "HIGHEST QUALITY" POULTRY SUPPLIES

We are devoting the following pages of this catalogue to incubators, brooders, poultry supplies of all kinds, poultry food, remedies and insecticides, etc., and are offering you what we believe to be the best line of poultry supplies in the West. We have practically everything needed and used in the profitable rearing and keeping of poultry.

OUR MOTTO, "Quality first—price as low as we can make it," will be strictly adhered to in this department, as well as in our other stocks.

WE ARE AUTHORIZED AGENTS FOR

## Genuine STANDARD CYPHERS' INCUBATORS Patented

For three years we have sold Cyphers Incubators and Brooders, and have had no trouble, a record that could not be made with any other make. It proves the following facts.

Practical poultry raisers who mean business and desire the greatest possible success should look for and demand the qualities that have made Cyphers Incubators world famous.

FIRE-PROOFED

INSURABLE

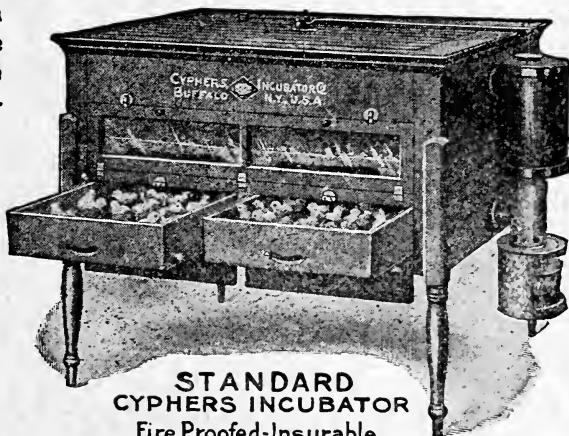
SELF-VENTILATING

SELF-REGULATING

NON-MOISTURE

EFFICIENT, DURABLE AND

POSITIVELY GUARANTEED.



STANDARD  
CYPHERS INCUBATOR  
Fire Proofed-Insurable.

### A COMPLETE LINE FOR 1914

We offer our customers the Cyphers Co.'s complete line of incubators and brooders—best on the market. For years Cyphers' incubator has been consistently improved, always maintaining its leadership, until today it represents all that is most efficient, convenient and reliable in incubator construction.

CYPHERS INCUBATORS have now been on the market eighteen years and today are used by more Government Experiment Stations, on more large, practical poultry plants, on more successful duck and egg farms and by a larger number of foremost poultry breeders than all other makes combined. For proof of these statements send to us for a copy of Cyphers Incubator Company's latest catalog.

Cyphers Incubators are so simple and easy to operate and so sure in results that you cannot help but be successful. Ten minutes morning and night is enough. No watching, no worry—ask anyone who owns one.

No. 2—244 Egg Size—Note the deep full size chick drawers and nursery.

TO OWN A CYPHERS is to have an incubator that stands first, not only because it has affixed to it the fire insurance label granted by the National Board of Fire Underwriters and bears a world-wide reputation, but because of the well established fact that it is the best hatcher of large, vigorous, lively chicks. It is positively guaranteed to outmatch any other make of incubator under widely-varying conditions, season after season, and to last ten years without repairs.

THE PRINCIPLES OF CONSTRUCTION that have made Cyphers Incubators "the world's standard hatcher" for the last twelve to fifteen years remain unchanged in the 1914 pattern. Their patented features, their entire freedom from the bothers, disappointments and losses common to the "cheap" or "bargain" incubator, make these high-class machines the best for you to own first, last and all the time. They are used with unequalled success in all parts of the civilized world, under every practical condition by men and women in all walks of life. They are money savers and money makers for poultry raisers who "mean business"—for men and women who want a real incubator with which to get out of poultry keeping all the profit and all the pleasure there is in it.

FREE IF INTERESTED—If you want to know more about Cyphers Incubators and Brooders we will gladly mail copy of Cypher's 1914 Catalog free.

## Price List CYPHERS INCUBATORS. F. O. B. Portland.

We have only one price, that set by the manufacturers. They are the cheapest incubators on the market, everything considered. Do not ask for cut prices or discounts; we are not allowed to make any.

### PORTLAND PRICES FOR 1914

#### Cyphers Fire-proofed Incubators.

| Size.                    | Weight.  | Price.  |
|--------------------------|----------|---------|
| No. 0.—70 hen eggs.....  | 90 lbs.  | \$16.50 |
| No. 1.—144 hen eggs..... | 145 lbs. | 23.75   |
| No. 2.—244 hen eggs..... | 215 lbs. | 34.00   |
| No. 3.—390 hen eggs..... | 260 lbs. | 40.00   |

### CYPHERS' ELECTRIC MACHINES

|                                                                                     |         |
|-------------------------------------------------------------------------------------|---------|
| ELECTROBATOR No. 1—60 eggs,<br>weight 40 lbs.....                                   | \$19.00 |
| ELECTROBATOR No. 2—120 eggs,<br>weight 70 lbs.....                                  | 24.00   |
| ELECTRO-HOVER—<br>Cyphers Adaptable, wght 30 lbs..                                  | \$12.00 |
| For full information and illustrated descriptions ask us for Cyphers' free catalog. |         |

### The Business Incubator of the Age

The Cyphers represents the highest degree of excellence yet achieved in incubators, both in principle and in mechanical construction. It overcomes practically every defect, every inconvenience and every objection urged to artificial incubation as performed by machines of other types. It not only is more convenient to operate; it not only consumes less oil; it not only is safer; it not only hatches a larger percentage of the eggs entrusted to it, but it produces larger, stronger, healthier and more vigorous chicks and ducklings than any other incubator ever built. This is our guarantee to the poultry fraternity.

## STANDARD CYPHERS COMBINATION BROODERS.

### FOR 1914—FIRE-PROOFED, INSURABLE, SELF-REGULATING.

Cyphers unequalled Apartment Brooders and Combination Roosting Coops have the same important advantages over all other makes that are possessed by Cyphers Company's 1914 incubators, in that they are fire-proof and insurable, having the first fire insurance inspection label ever granted on a brooder.

**CYPHERS 1914 BROODERS**, every size and style, are self-regulating, self-ventilating and varmint proof. The outdoor styles are usable also as colony coops for the growing chicks. They are easily and quickly converted into colony roosting coops by simply taking out the hover, which is made removable for that purpose.

**THIS DOUBLE USE** of the Cyphers Brooder means a considerable saving of money. It makes a safe and comfortable enclosure for the young chicks at night and saves the buying of a coop for them. These outdoor brooders, on account of their fireproof construction, can be used indoors, although we supply a special brooder, Style D, for indoor purposes. All Cyphers 1914 Brooders, both outdoor and indoor, contain either two or three apartments. The popular Style B (shown in illustration herewith), contains three apartments—first, roomy space under the hover; second, hover chamber; third, well-lighted exercising apartment. It has often been said by users of the Cyphers Brooders that they **MOTHER THE CHICKS BETTER THAN THE HEN**.

**AN IMPORTANT REASON** for this is found in the great practical advantage possessed by the entire line of Cyphers Brooders for 1914 in their self-regulating feature. For years the self-regulator was attached only to the highest priced Cyphers Brooder (Style C), but it was so well received that now it is attached to all the Cyphers Company Brooders. It automatically regulates the heat in the brooder underneath the hover at all times, whereas in brooders without a regulator the heat has to be governed by a continuous watching of the lamp and turning the wick up or down whenever more or less heat is required.



Cyphers "Style B" 3-Compartment 1914 Outdoor Brooder.

### Cyphers Style B Outdoor Brooder.

The best "Foster Mother" made and sold at any price and thousands are in use. This brooder can be operated out of doors in any kind of weather and the chicks inside will be perfectly happy, safe and contented. Style "B" is absolutely storm, cold, wind and rat proof. Makes an excellent colony house later by removing the hover and putting in roots.

**CONSTRUCTION.**—These brooders are constructed of No. 1 material throughout, are well and strongly made. The roof is made in one piece and can be lifted up, the large combination windows and doors in the front can be opened, and the hover set out so that with a broom you can sweep out all litter and dirt quickly and without any back breaking labor.

**NOTE.**—The windows can be opened safely in warm weather as there is a fine wire screen on the inside.

The lamp is on the outside, convenient and handy. Remember all Cyphers brooders are fire-proof, insurable, self-regulating and self-ventilating.

**DIMENSIONS:** Floor space, 32x62 inches; height, 32 inches in front, 24 inches in rear. Capacity (normal), one hundred newly-hatched chicks; can accommodate one hundred and fifty chicks.

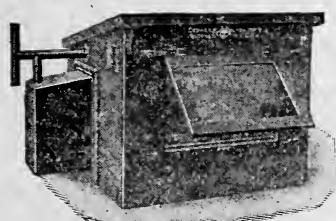
**PRICE, \$20.00.**

**Weight, 200 lbs.**

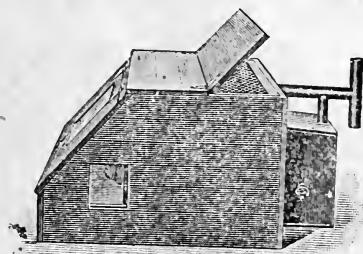
Remember—every buyer of a Cypher's Incubator or Brooder is entitled to the Free Booklets or Bulletins issued by the Cyphers Co. These cover different subjects and are very valuable. Write.

## Cyphers Style "A" Outdoor Brooder

This Style A as shown above is one of our best sellers on account of the lower price and saving in freight charges. It is of the same size, design and construction as the first section of Style "B." Anyone who is handy with tools can build and join on another apartment for a "feeding and exercising room" to be used when the weather is bad. Capacity, 100 baby chicks.



Style "A" Outdoor.



Style "D" Indoor.

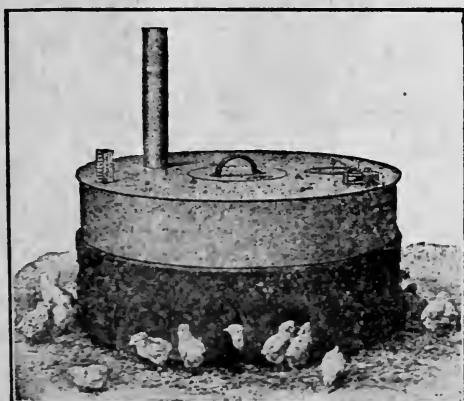
PRICE, \$16.00; weight, 135 lbs.

## Cyphers Adaptable Hover.

IN ADDITION to our unequalled line of brooders, we are permitted to offer separately the Cyphers Company's world's challenge Adaptable Hover. This self-regulating heater is used in each of the four styles of individual brooders manufactured by Cyphers Incubator Company for 1914. This machinery-made, all-metal, guaranteed fire-proof heating and brooding device is suitable to be used anywhere that heat is required for brooding chicks or ducklings. It can be used in a roosting coop, colony house, shed, hen house, barn or other building with or without any additional enclosure for the chicks, or in a large goods case or piano box or home-made brooder. Is equipped with an automatic regulator, is self-ventilating; and easily adjusted to any use.

Is pronounced by thousands of users to be the best device thus far invented for heating home-made brooders. Recommended especially for use in long brooding houses, one hover for each pen. This adaptable hover is complete in itself, bears underwriter's insurance label and is safe to use anywhere. Weight, boxed for shipment, only 40 pounds; capacity 75 to 100 chicks.

Portland Price, \$10.00



Cyphers New 1914 Portable Hover.

## Cyphers New Portable Hover.

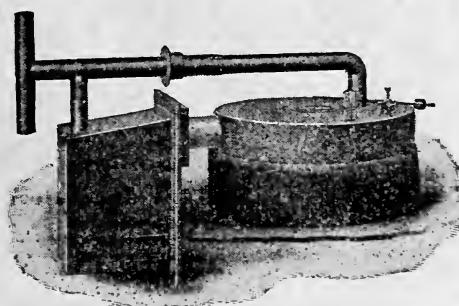
For Handy and Economical Brooding of Chicks and Ducklings. Is Self-Regulating, Self-Ventilating and Indestructible.

This Hover has the same high-grade, dependable, toggle-joint, zinc and steel thermostat that is used on the entire line of Cyphers Brooders.

## Cyphers Style "D" Indoor Brooder.

This is the same in all respects as the Style A outdoor type except that the upper half is more convenient in shape and construction for indoor use. Note the large glass window put in on a slant to face the sunlight or the window of apartment in which the brooder is to be used; we strongly advise the use of indoor brooders for early hatched chicks, especially here, where we have so much rain in the early spring. Can be used anywhere, just so it is out of the rain.

PRICE, all complete, \$15.00; weight, 120 lbs.



Cyphers "All-Metal" Adaptable Hover.

This new Hover is positively and infallibly automatic in ventilation; made so by the ingenious but simple construction.

It will hover comfortably one hundred newly hatched chicks, but we advise strongly against trying to brood chicks in flocks greater than fifty to seventy-five—the smaller number preferred at all ages.

HEATING POWER.—Used without a brooder case, will operate perfectly in any temperature above the freezing point. With a brooder case and used indoors it will operate successfully in any temperature down to the zero mark.

ALL-METAL AND FIRE-PROOF.—There is absolutely nothing about this Hover to take fire or burn up.

PORTABLE MEANS MOVABLE.—Can be picked up at any time—all complete and moved to any place the operator may desire, and the device will continue in operation right along. The lamp need not be removed at this time or the wick as much as turned down.

PLACES TO USE.—Was designed expressly for indoor use, in brooder houses and other poultry buildings, in dwellings or in well-built and well-lighted apartments of any kind. Will do excellent work in colony houses, in large sized brood coops, etc.

PRICE, \$10.00; weight, 40 lbs.

CYPHERS CATALOG FOR 1914 contains fully illustrated descriptions of these self-regulating, fire-proofed hovers, also of the entire line of Cyphers apartment brooders, etc., etc. Free on request.

## BUCKEYE HOT WATER INCUBATORS

It is no longer a wonderful feat to build an incubator that will hatch some chickens from some eggs, but the truly successful incubator must hatch a chicken from every hatchable egg.

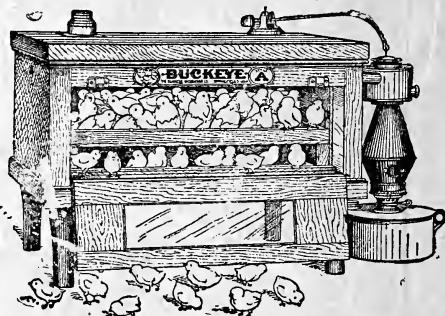
In addition to that every chick must be a vigorous, healthy specimen that starts to grow the moment it is hatched, and continues to grow without forcing or doctoring.

### THAT'S THE RECORD OF THE BUCKEYE!

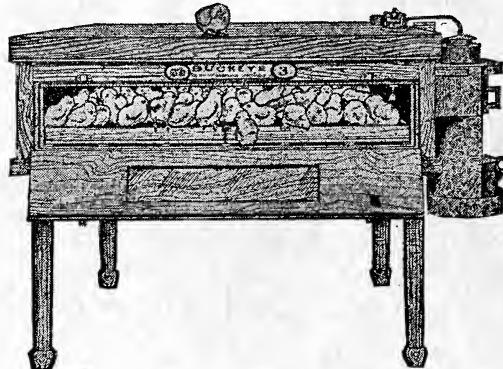
Many of them have been purchased by persons who could scarcely read—yet, the results have always been the same. They hatch every hatchable egg.

For twenty-two years Buckeye Incubators have been sold with a guarantee to hatch every hatchable egg.

The Buckeye is so simple that a boy or girl can operate it. That's the secret of its wonderful success.



Style A, (short legs) 60-Egg Buckeye Incubator.



Buckeye Standard Incubator.

### Construction of Buckeye Incubators

The Buckeye incubators are double walled, well made, properly constructed and guaranteed for five years. They are not finished so elaborately as some, but are nice enough for any one. They are "built for business" and guaranteed to "hatch every hatchable egg."

Their circulating hot water system has been used successfully for twenty-two years. Every Buckeye heater is made of a specially prepared rust-proof metal. The lamp and lamp support is excellent, and is made strictly in accordance with the requirements of the insurance underwriters' laboratories, so that each Standard Buckeye Incubator now bears "The Underwriters' Label."

The thermostat regulator is perfect and far superior and more expensive than the "disc" or "wafer" regulators used on most other incubators.

The Buckeye Circulating Hot Water System makes the control of ventilation and moisture the simplest thing imaginable, without complicated valves and slides.

A constant supply of pure, fresh air is flowing through the egg chamber twenty-four hours every day. The circulating air that passes through the incubator contains all its natural moisture, too.

The Buckeye system is so nicely adjusted that the eggs get just the correct amount of moisture all the time without the aid of artificial methods. Therefore, with a Buckeye, you have no ventilation or moisture worries. Its purely automatic, and you can't make a mistake.

**FREE—\$1.00 worth any kind Poultry Supplies or Books if you order a Buckeye Incubator and Brooder at the same time.**

### READ THIS

*Portland, Ore., City.*

Gentlemen: When I bought my Buckeye Incubator, advertised to "HATCH EVERY HATCHABLE EGG," I did not expect it would do it. I thought that an average of 75 to 80 per cent was all that anyone should expect; but here is my first report:

Set 60 eggs; on the eighth day tested out 12 infertile eggs. Every fertile egg hatched, although one was a cripple.

The Buckeye has made good. It really did "HATCH EVERY HATCHABLE EGG."

Yours truly,

W. H. BAILMENT.

### BUCKEYE STYLE "C" AND "A"

These wonderful "little hens" are constructed along the same general lines as the standard Buckeye, except that they have short legs and are without the lamp support. They should be placed on a table or platform. They are the best low priced, small, incubators on the market and give great results—read report above. We operate them ourselves and have sold hundreds.

### Cut Prices for 1914.

Each machine contains a printed Buckeye guarantee, instruction book, thermometer, egg-tester and extra tray.

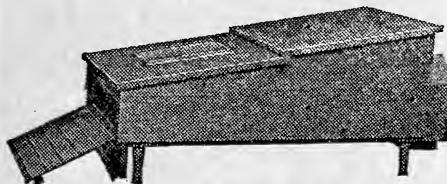
|                      | Size.   | Weight.  | Price.  |
|----------------------|---------|----------|---------|
| Style C (short legs) | 50-egg  | 40 lbs.  | \$ 7.50 |
| Style A (short legs) | 60-egg  | 60 lbs.  | 10.00   |
| Style A Standard     | 60-egg  | 85 lbs.  | 11.50   |
| *No. 2D Standard     | 220-egg | 150 lbs. | 23.50   |
| No. 3 Standard       | 250-egg | 200 lbs. | 27.50   |
| No. 4 Standard       | 350-egg | 230 lbs. | 32.50   |

\*No. 2D has a double egg chamber. You can use one (110 capacity) or both, just as you like

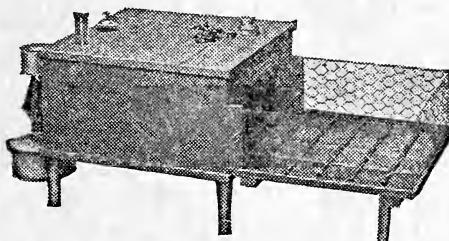
**LIKE FRIED CHICKEN?** With a small Incubator and Brooder you can raise 100 chickens to frying age in a space 10x20 feet and with an outlay not exceeding \$20.00, and have your outfit left. We can tell you how. Ask our expert.

## BUCKEYE Top Heat Self-Regulating BROODERS.

Here, we must be brief and to the point. To start with we believe a good artificial brooder is better than a mother hen. By good we mean one properly constructed, one with the proper system of heating and ventilation.



Outdoor Self-regulating, Buckeye Brooder.



Indoor Self-regulating, Buckeye Brooder.

### BUCKEYE OUTDOOR BROODERS

Are built of one-inch lumber throughout, with a double thickness of flooring under the hover. The roof is covered with heavy galvanized steel. The skylights are so constructed that a leak is impossible. The lamp is encased in a heavy galvanized steel box that is wind and weather-proof. It can't blow out.

### BUCKEYE INDOOR BROODERS

Are made of one-inch matched lumber and are put together to stay. They receive two coats of the best paint, and with ordinary care will last ten years.

## General Construction

### The Heating

In the Buckeye Brooders, the hot water tank, which is suspended above the chicks, keeps every corner of the brooder at exactly the same temperature; it's this even distribution of heat that prevents the chicks from crowding. But even distribution of heat don't cover it all; the heat must be just right.

### Self-Regulating.

All Buckeye Brooders except the Lampless are equipped with an automatic heat regulator that absolutely controls the heat, and keeps it just right, regardless of weather conditions.

The circulating hot water system protects the chicks in case the lamp should be neglected or accidentally put out, for the hot water will stay hot long after the lamp goes out.

### The Ventilation.

Little chicks, to do well, must have fresh air. In the Buckeye they get a constant circulation of fresh air without being exposed to the slightest draught.

### The Exercising Yard.

If it's bad for people to eat and sleep in the same room, it's bad for chickens, so the Buckeye is provided with a separate room or yard where the chicks feed and exercise.

The above conditions and other features not mentioned here on account of limited space, make the Buckeye a perfect Brooder, with absolute heat regulation, plenty of fresh air, and freedom from crowding.

## Cut Prices for 1914.

|                                 |         |
|---------------------------------|---------|
| Buckeye 50-chick outdoor .....  | \$12.00 |
| Buckeye 100-chick outdoor ..... | 15.00   |
| Buckeye 100-chick indoor .....  | 9.00    |

FREE—\$1.00 worth of Poultry Supplies or Books if you order a Buckeye Incubator and Brooder AT THE SAME TIME.

### BUCKEYE LAMPLESS BROODERS.

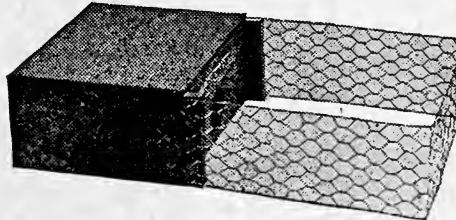
The Lampless or Fireless Brooder is no longer an experiment; it is a success and is becoming more popular each season. Lampless Buckeye Brooders are so constructed that the heat of the chick's body is retained under the felt hovering, where the little babies are "as snug as a bug in a rug."

Every requirement is equally well met; these brooders require no lamp—consequently less care and less expense—two items that are worthy of serious consideration.

They are especially adapted for use on this Coast on account of our mild weather. However, for use in cold sections, or very early in the Spring, we, ourselves, believe that the heated brooder is preferable, unless you will keep the lampless brooders in a heated room or house. Under any conditions, they make an excellent and inexpensive "second brooder" for the older chicks.

### NOTE OUR LOW PRICES

**BUCKEYE 25-CHICK LAMPLESS**, with wire yard, weight 5½ lbs., each \$1.50.  
**BUCKEYE 50-CHICK LAMPLESS**, with wire yard, weight 12 lbs., each \$2.00.



Indoor Lampless, Buckeye Brooder.

We believe in Buckeye Brooders. After years of incubator selling, we realize only too keenly that no matter how successful you may be hatching chicks, you can't be successful raising chicks unless you use a good brooder. Whether you hatch your chicks with a Buckeye or some other incubator you will not miss it by raising your chicks in a Buckeye Brooder.

### CANARY BIRDS, CAGES, ETC.

HAVE YOU A BEAUTIFUL SINGER IN YOUR HOME? IF NOT, BUY A HARTZ MOUNTAIN CANARY, "THE SWEETEST ON EARTH." SEE PAGE 126.

### Chick Life Insurance

Insure the life of your chicks by feeding our High Quality Sterling Chick Feed, put up under the Pure Food Law and guaranteed. Page 123.

## International Sanitary Hover.

The Sanitary Hover was invented and perfected at the Rancocas Poultry Farm, the largest and most successful egg farm in the world. They invented and perfected it because they needed a sanitary, successful, economical brooding device. It is now recommended by thousands of pleased customers.

**SANITARY HOVERS** are as practical for the small back-yard poultry raiser as for large poultry plants. They are warmest at the curtain—usable anywhere—ready for business wherever placed. All that is necessary is to place the Hover where you want it and light the lamp. And the easiest way to set it up is to set it down. No crowding or smothering of chicks—no kneeling in mud or dust to get at the lamp—no cutting of holes or building of platforms.

**IT IS WARMEST NEAR THE CURTAIN.** This causes the chicks to distribute themselves around the edge of the curtain, where they have plenty of room and fresh air as well as warmth. No deaths by crowding of the chicks to the center.

**IT IS ESPECIALLY SUITABLE** for use in colony or brooder houses; but it can be used with equally good results in a hen house, tent, barn, stable, piano box, or even a dry goods box. It can be picked up and carried around with ease.

The International Sanitary Hover provides 540 square inches of hovering space—200 square inches more than any other hover.

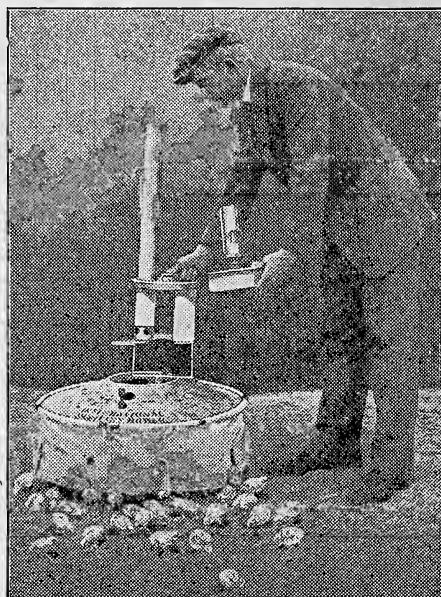
This hover is constructed of heavy galvanized iron and is always sanitary and vermin proof, easily cleaned and sprayed when necessary. Will last a life time, and give perfect brooding service every day of that time. It is only necessary to lift the thermometer to ascertain the temperature under the hover.

**MANY TELL US** that they raised 94, 96, 98, and some even 100 per cent. of the baby chicks put under the hover. One customer says, "It has the old hen beaten a mile. It has many advantages that the old hen does not have."

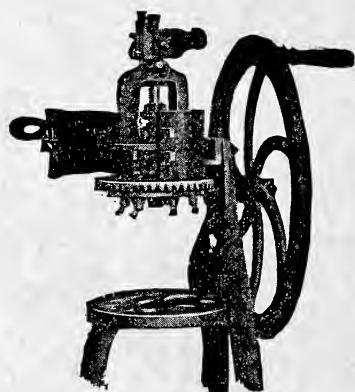
Call and examine this hover. We shall be pleased to show them to you.

**PORLTAND PRICE, COMPLETE, \$9.50 EACH.**

Fully illustrated and descriptive 32 page booklet, free. Contains endorsements from the largest and foremost poultry men in the United States.



International Sanitary Hover in use.—Showing lamp and ventilating system.



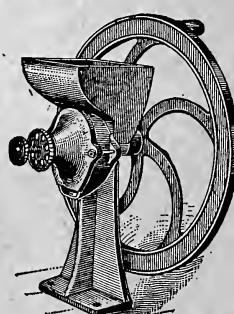
Mann's No. 7 for Green Bone.

**MANN'S GREEN BONE CUTTER.**—Without any doubt the best and only successful green bone cutter on the market today. The No. 5-B and No. 7-BM are the two best and most popular sellers. Descriptive catalog free on request.

**MANN'S NO. 5-B.**—Has a large balance wheel, making it easy to operate. Should be mounted on a bench. Has four knives, large, solid cylinder, and has the latest patent automatic governing spring feed, which makes it one of the best low-priced bone cutters ever offered. Price \$10.00

**MANN'S NO. 7-BM.**—The new No. 7-BM is mounted on a strong iron stand, and has patent automatic governing spring feed. Large, open-hinged cylinder, giving instant access to all working parts, has six knives, gear guard, anti-clog device, heavy balance wheel and other improvements. (See cut.) Price \$15.00

**EVERY POULTRY KEEPER** should have a good spray pump for lice liquid, disinfectant and whitewash—see pages 103-104.



## Grinding Mills

**NO. 32 HAND GRINDING MILL.**—In this mill are embodied all the good features of other hand grinding mills to which have been added universal burrs or grinding plates that are quickly adjusted and locked for grinding coarse or fine. This machine will grind any kind of grain or seeds, dry bone, shells, crockery, etc., for feeding to poultry. Has a 16-inch fly wheel and is light running; the capacity is not equalled by any other of the same size. We believe this is superior to the "Wilson," which we have sold heretofore. We can supply Power Sizes. Write for descriptive pamphlet. Weight, 40 pounds.

Price \$5.50

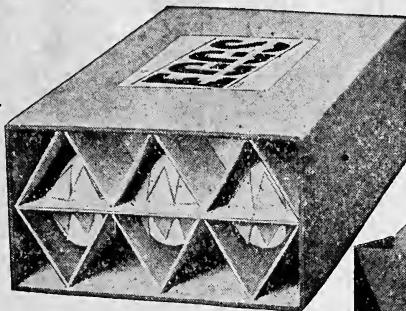
**No. 35 B. HAND OR POWER (1/2 HORSE POWER)** PRICE \$10.00

No. 32 Mill—You Need One.

The up-to-date Poultry Books we offer on page 5 are full of valuable information. A 25c book may make or save you dollars—see page 5.

## Diamond Egg Boxes for Express and Parcels Post

NEW  
STYLE  
CUSHION  
FRAME  
LIGHT  
STRONG  
SAFE



OPEN END SHOWING CONSTRUCTION.

The Diamond Egg Carrier is something entirely new and in a class by itself. Shipped in the flat, thereby saving on freight and express. The peculiar construction of the box in V-shaped wedges enables us to make it of very light material while still retaining great strength so that a man can stand on them. It is easily set up.

A child can put them together and pack the eggs. They can be packed on a moment's notice. The eggs do not come in contact with the outside of the box at all, having a cushion on all sides, and being wrapped in tissue paper, there is no jar, thus insuring safe transportation. Eggs cannot be taken out or substituted without detection. If properly packed, the Diamond Egg Carrier can be dropped a distance of six feet and not harm the eggs. We defy any manufacturer of any other box to put theirs to this test. Packed flat, one dozen to a package, each package being complete in itself and containing address labels, gum paper and tissue paper.

### DIAMOND EXPRESS BOX FOR EGGS FANCY FOR HATCHING.

| Size                                       | Each | Dozen  |
|--------------------------------------------|------|--------|
| 15 egg size (P. P. 1 lb. ea.).....         | 15c  | \$1.50 |
| 30 egg size (P. P. 1½ lbs ea.).....        | 25c  | 2.75   |
| 25 egg size (P. P. 1½ lbs. ea.)....        | 30c  | 3.00   |
| 9 egg size, Turkey and Goose.....          | 25c  | 2.50   |
| 12 egg size, for Duck eggs.....            | 25c  | 2.50   |
| For 50, 75, or 100, order the 25-egg size. |      |        |

### Ideal Egg Box.

Very handy and convenient for private trade. Saves time and eggs. Your customer returns them so you are nothing out. (Not heavy and strong enough for express or mailing.)

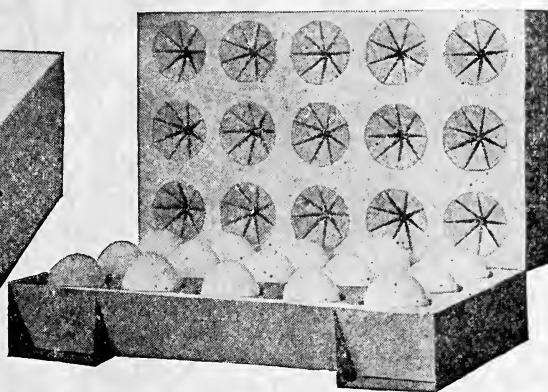
Price—Per doz. 30c (P. P. 1½ lbs); 100 for \$1.25 (P. P. 11 lbs.)

### Sefton Live Chick Box.

Made from the best grade of corrugated paper. Shipped in the flat, but quickly set up by anyone. The use of this box has made long distance shipments of live baby chicks possible and safe.

| Capacity. | Weight.       | Each | Doz.   |
|-----------|---------------|------|--------|
| 25 chick  | P. P. 1½ lbs. | 20c  | \$2.00 |
| 50 chick  | P. P. 2½ lbs. | 25c  | 2.50   |
| 100 chick | P. P. 3 lbs.  | 40c  | 4.00   |

Please Note.—The weight given per single egg box (P. P.) is heavier than the empty box, for we have added wrapping and packing material. See table for parcel post rates and zones inside front cover.



### DIAMOND PARCEL POST EGG BOX

Something new and practical, designed especially for sending eggs by Parcel Post to your regular customers who can empty the cases and return, to be filled again.

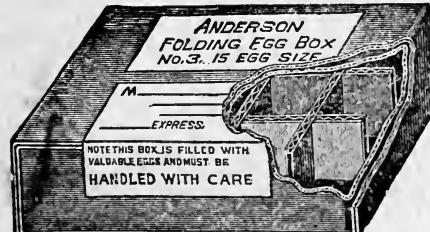
This new parcel post box is similar in construction to our 15-egg size hatching box, only they are made to contain TWELVE EGGS with additional cases provided for TWO, THREE and FOUR and up to EIGHT DOZEN.

The DIAMOND EGG BOX has several advantages over any other box offered for shipping eggs by mail. No box, no matter what its construction, is safe where eggs set on a flat bottom. OUR V-SHAPED FILLERS HOLD THE EGG IN SUSPENSION AND PROTECT THEM FROM BREAKAGE. NO OTHER BOX HAS THIS FEATURE.

Put up "flat" in pkgs of 12 with gummed paper for fastening, and address labels for each box.

| Capacity. | Weight<br>Empty | Weight<br>Filled | Each | Prices<br>Doz. |
|-----------|-----------------|------------------|------|----------------|
| 1 doz.    | ¾ lb.           | 2½ lbs.          | 15c  | \$1.50         |
| 2 doz.    | 1½ lbs.         | 4½ lbs.          | 25c  | 2.50           |
| 3 doz.    | 2 lbs.          | 6½ lbs.          | 30c  | 3.00           |
| 4 doz.    | 2½ lbs.         | 8¾ lbs.          | 40c  | 4.00           |

NOTE.—The 1 doz. box above has a single corrugated case, the larger sizes have double corrugated cases. Double case for the dozen size on orders at 4c extra. Write for prices by the 100 and for larger sizes.



### Anderson Egg Carriers.

This has been a popular egg box for several years. A safe box for the expressing of fancy eggs, for hatching. Each egg should be wrapped before dropping into its place. Made of corrugated paper—12 to a package, shipped K. D. in flat.

| Size.   | Parcel Post Weight. | Each | Doz.   |
|---------|---------------------|------|--------|
| 15 egg  | 1 lb. each          | 15c  | \$1.50 |
| 30 egg  | 1½ lbs. each        | 25c  | 2.50   |
| 50 egg  | 2¼ lbs. each        | 35c  | 3.50   |
| 100 egg | 4 lbs. each         | 60c  | 5.25   |

## Up-to-Date Drinking Fountains and Feeders

Increase your profits by saving the chicks. Start now by ordering sanitary, economical, up-to-date Fountains and Feeders.

For cost by parcel post, note P. P. weights and consult rate tables inside front cover.

### CYPHERS DRINKING FOUNTAINS.

Pressed out of heavy galvanized iron; will last for years. Easy to clean inside and out. (See cut.)

| Capacity.      | P. P. Wt. | Each. | Doz.   |
|----------------|-----------|-------|--------|
| 1 Quart .....  | 1 lb.     | 25c   | \$2.50 |
| 2 Quarts ..... | 1½ lb.    | 35c   | 3.50   |
| 3 Quarts ..... | 2 lb.     | 40c   | 4.00   |

### PERFECTION FOUNTAIN.

This consists of a shallow 6-inch pan and a collar to fit any size Mason jar. You fill the jar, screw on the collar, slip the pan in and turn it over. Simple, sanitary and perfect for small chicks.

Price (without jar) 25c each, \$2.50 per dozen, postpaid.

Wall Fountain.



### CYPHERS WALL FOUNTAINS.

Very desirable for adult fowls; hang up on the wall out of litter and dirt; made of heavy galvanized iron. (See cut.) Price, ½-gal. (P. P. 2 lbs.) 50c each; 1-gal. (P. P. 3 lbs.) 60c; 2-gal. (P. P. 3½ lbs.) 85c.

### SANITARY STONE FOUNTAINS.

An old and popular style that keeps the water cool. (Not mailable.) Price, 1-qt. 25c, 2-qt. 35c, 4-qt. 50c

### "ALL-RITE" FOUNTAIN AND FEEDER.

(See cut.) This new fountain can be set down, but is best hung up out of the litter. It feeds water, mixed chick feed, etc. It is easy to fill; simply snap out the pan, fill the jar, slip the pan in again and invert; no need of removing the jar from the wire holder. Made to hold the old zinc-top Ball Mason pint, quart or two-quart jar. We do not include cans or jars with the "All-Rite" (everyone has old jars).

Prices, each 20c; 3 for 50c; 12 for \$1.75 (P. P. each ½ lb., doz. 5 lbs.)

### DRY FOOD HOPPER.

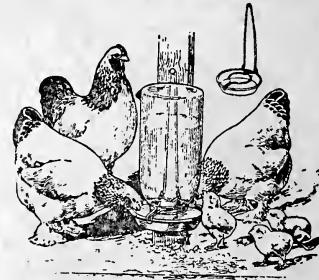
Made like above, but are larger, and only two compartments. Thousands are in use for dry foods.

CYPHERS.—One compartment holding 6 and one 3 qts. (P. P. 4 lbs.)

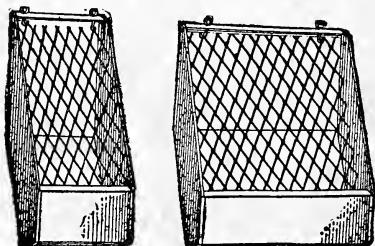
Each 75c

NESCO.—Two compartments, 2 and 4 qts. (P. P. 3 lbs.)

Each 50c; dozen \$5.00



All-Rite Fountain  
and Feeder.



Boston Hoppers.

### BOSTON DRY FOOD HOPPERS.

The use of these hoppers will positively save their original cost every week in the case of adult fowls and every month or less in the case of chicks. During the day the front screen is dropped down against the feed, at night lifted up and hooked to keep the rats out. Thousands now in use. (See cut.) Besides this they will help greatly to keep your fowls and chicks in a healthy condition by insuring them clean food entirely free from filth of any kind. Every poultryman will appreciate this feeder. Send for fully illustrated pamphlet.

| Capacity.               | Size.    | P. P. Wt. | Each.  |
|-------------------------|----------|-----------|--------|
| ADULTS—Half Bushel..... | 17x8x13  | 7 lbs.    | \$1.10 |
| ADULTS—One Peck.....    | 17x8x 7  | 6 lbs.    | 1.00   |
| CHICK—Half Peck.....    | 15x8x 4½ | 4 lbs.    | 1.10   |
| CHICK—One Peck.....     | 23x8x 4½ | 5 lbs.    | 1.60   |

NOTE.—Four or more at one time, 10c less.

### CYPHERS FOOD AND WATER HOLDERS.

For Chickens and Ducks of All Ages.—They are especially recommended for use in feeding mashes of any kind; also steamed or dry alfalfa. This protected receptacle saves 15 to 25 per cent in food-stuff. The guard lifts out of the pan, making them easy to clean. There is nothing to get out of order. Made of heavy galvanized iron; safe, sanitary, saving and serviceable.

| Size.    | P. P. Weight. | Price.   |
|----------|---------------|----------|
| 4x10 in. | 1½ lbs.       | 40c each |
| 5x18 in. | 2½ lbs.       | 65c each |
| 6x24 in. | 3½ lbs.       | 90c each |



Equip your poultry houses and yards with these money-saving, sanitary utensils. Don't invite diseases and loss by using old pans, open dishes or wooden troughs.

## INCUBATOR HYGROMETERS.

### "Moisture Indicators."

Millions of chicks die in the shell every year, for the want of proper moisture conditions. The importance of a correct percentage of moisture during incubation has made the "Tycos" Incubator Hygrometer as necessary as the "Tycos" Incubator Thermometer. Neither takes the place of the other, but together they give the practical poultry raiser all the facts required for successfully regulating the heat and moisture of the incubator. Descriptive pamphlet on request.

Hygrometer, with full instructions, postpaid \$1.50; with Tyco's 75c Incubator Thermometer, only \$2.00.

## THERMOMETERS.

We sell the "Tyco's," recognized as the most dependable. See illustration herewith showing general style of the following numbers:

### For Incubators.

No. 22 "TYCO'S."—Very popular. Generally suspended on string or wire on level with eggs. (Cypher's style.) Postpaid 65c; wire hanger 10c extra

TYCO'S CERTIFIED.—Same style as No. 22. Scale is etched on glass tube as well as metal back. "Certified correct," worth the price. Postpaid \$1.00

NO. 22½.—Square design, has folding legs, adjustable; to be set up in egg tray. Postpaid 75c

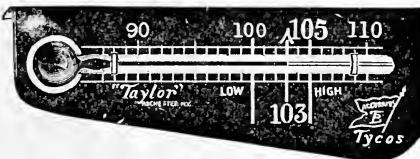
NO. 20.—Tested, for incubators, used in Buckeye and other incubators. Postpaid 65c

### For Brooders.

NO. 29.—New style and most convenient; temperature readable from above the hover. Used in both Cyphers and Buckeye Brooders. Postpaid, each 60c; 2 for \$1.00

NO. 21.—Low priced, for brooder. Postpaid 40c

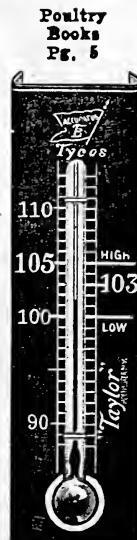
HOT BED.—Round and pointed tube protected with metal and wood. For plunging in hot beds. Postpaid \$2.00



Tyco's No. 22



No. 29



No. 20

Poultry Books Pg. 5

## POULTRY KILLING KNIVES.

Full instructions with either knife.



Pilling French Poultry Knife.

Postpaid 50c

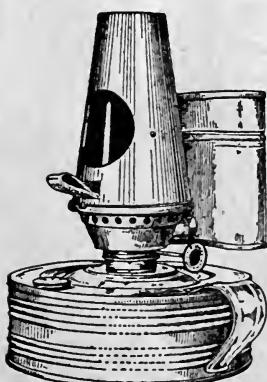
### LAMPS.

OAKS HYDRO SAFETY.—Made especially for incubators and brooders. They have a water jacket to keep oil and burner cool and are perfectly safe. Economical and satisfactory in every way.

NO. 1—7½ in. high; ½-in. wick (P.P. 1½ lbs.). \$1.00  
NO. 2—8 in. high; 1-in. wick (P.P. 2 lbs.). 1.50

NO. 3—9 in. high; 1½-in. wick (P.P. 3 lbs.). 1.75

OAKS.—Complete catalog on request.



Oaks Safety Lamp.

X-RAY. (See cut).—This egg tester is made to use on a lamp and will fit the ordinary No. 2 burner; very convenient and good. (P. P. 1 lb.) Price 35c

### POWDER GUNS.

Very economical for using insect powder of any kind. DEFENDER.—See cut.)

JUMBO.—Larger and better 10c; postpaid 15c

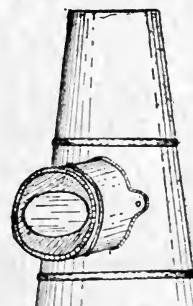
Large Powder Blowers,  
Page 105.

For Lice Powder, Etc.,  
See Pg. 128.

25c; postpaid 30c

THE DEFENDER GUN

THOS.W.HOUGHINCO.



X-Ray Egg Tester.

## WIRE NETTING FOR POULTRY RUNS AND TRELLISES, ETC.

|                   | 12-in. | 18-in. | 24-in. | 30-in. | 36-in. | 48-in. | 60-in. | 72-in.  |
|-------------------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1-inch mesh ..... | \$1.75 | \$2.60 | \$3.45 | \$4.30 | \$5.10 | \$6.80 | \$8.40 | \$10.00 |
| 2-inch mesh ..... | .85    | 1.15   | 1.45   | 1.80   | 2.15   | 2.90   | 3.60   | 4.30    |

Short lengths, 2-inch mesh, 1c square foot; 1-inch mesh, 3c. Prices subject to change without notice.

Note.—Prices on wire netting subject to market. Write when wanted, stating amount needed.

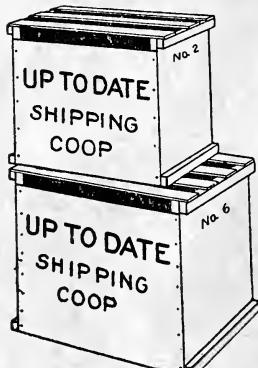
### UP-TO-DATE SHIPPING COOPS.

These coops are really "up-to-date" and will give your customers that impression of you if you use them when shipping. Buyers who pay fancy prices for thorough-bred birds like to see them come in a nice coop—not some old cracker box or oil case. These coops are light but strong. The ends have the cleats nailed on. We ship in the flat to save charges, but its an easy matter to nail them together, for each part is marked.

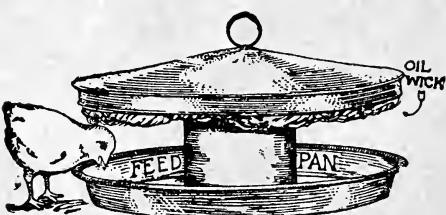
| No.   | Width.               | Length. | Height. | Price.               |
|-------|----------------------|---------|---------|----------------------|
| No. 2 | 10 $\frac{1}{2}$ in. | 18 in.  | 24 in.  | Each 40c Doz. \$4.00 |
| No. 4 | 10 $\frac{1}{2}$ in. | 24 in.  | 24 in.  | Each 50c Doz. 5.00   |
| No. 6 | 19 $\frac{1}{2}$ in. | 24 in.  | 24 in.  | Each 60c Doz. 6.00   |

For Parcel Post—No. 2 weighs 8 lbs; No. 4 9 lbs; No. 6 15 lbs.

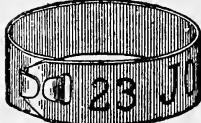
Capacity.—No. 2 suitable for single birds or pair Mediterraneans. No. 4 for Asiatic male, American or Mediterranean pair or small trio. No. 6 for a pen of five birds, any variety. (Not made taller this year.)



Shipping Coop.



Automatic Chick Greaser and Feeder.



Double Clinch.  
State size wanted.



### LEG BANDS FOR POULTRY AND PIGEONS.

Made in five chicken and two pigeon sizes; state size wanted or tell us what variety and sex you want them for.

Keep a supply of Leg Bands on hand at all times; this is the only safe way to mark your different birds so you can tell certain stock or strains. Of course every bird must be marked with a band before it can be entered in a show.

**DOUBLE CLINCH.**—A desirable band, very safe; no exposed corners, ends or loops; has double fasteners (see cut).

Prices, postpaid, any size, 12 for 15c, 25 for 30c, 50 for 50c, 100 for 85c.



Leader Adjustable Leg Band.

**LEADER** (see cut).—Latest and best adjustable leg band out. Has neat, compact and smooth fastening, with no catching points; easily attached and is absolutely secure.

Prices, postpaid, any size, 12 for 15c, 25 for 30c, 50 for 50c, 100 for 80c.

**OPEN PIGEON BANDS.**—For chicks or pigeons. Same price as above.

**SEAMLESS PIGEON BANDS.**—Very light. Price, postpaid, 12 for 30c, 25 for 50c, 50 for 80c, 100 for \$1.50.

**POULTRY REMEDIES.**—We offer guaranteed remedies; a cure or your money back. See page 128.



Caponizing Tools.

### POULTRY MARKERS.

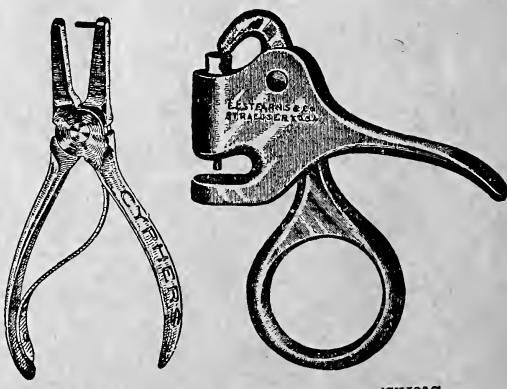
Very necessary for marking the web between the toes, especially of young chicks; you put leg bands on when they get older.

**CYPHER'S PERFECT MARKER** (see cut).—Large and strong, easy to use Postpaid 50c

**RELIABLE MARKER.**—Same style as Stern's, without the finger loop. Postpaid 25c

**PETTEY'S PUNCH** (see cut).—New style. Postpaid 25c

**STERN'S POULTRY MARKER.**—Latest and best. Finger hold or loop handle, most convenient. Postpaid 35c



Cyphers.

Stern's.

## "HIGHEST QUALITY" POULTRY FOODS

At special prices direct to Poultry Raisers: 5 bags assorted foods at 500-lb. prices, 10 bags at 1000-lb. prices.

### "Talk" for Food

Poultry Foods and Feeding is a great study and much midnight oil and years of experimenting have been devoted to it.

A few manufacturers of Poultry Foods in United States have spent thousands of dollars in this study and have perfected and prepared properly balanced chick and poultry foods for specific purposes. AMONG THE FEW, and we might add the LARGEST AND MOST SUCCESSFUL is the CYPHERS INCUBATOR COMPANY. THEY OPERATE THE LARGEST MILL IN THE WORLD DEVOTED EXCLUSIVELY TO POULTRY FOODS.

AND STILL in the face of these FACTS, and many others of great importance, some Feed or Supply House or "WOULD-BE" poultry expert will mix up a "SO-CALLED" chick or poultry food, advertise it and sell quantities of it. The poultry raiser buys it FIRST because it is cheaper, SECOND because they do not know they are paying their GOOD MONEY for a lot of SCREENINGS and WASTE. Some may say they get results from it; perhaps so, but they would get MUCH BETTER from a REAL, "ALL-FOOD" PROPERLY BALANCED RATION.

THE IMMENSE QUANTITY we handle enables us to sell our "HIGHEST QUALITY" FOODS AT VERY REASONABLE PRICES. Don't practice false economy by buying low-priced inferior stock.

### "Highest Quality" Sterling Chick Feed.

Prepared especially for Baby Chicks, Turkeys, Pheasants, etc.

Put up for us under the "Pure Food Law" by one of the largest manufacturers of poultry foods in the United States, and is the "highest grade" Chick Food made; always clean and sweet.

Last season was the second year we offered "Sterling" to our customers, and they were more than pleased. We have sold over 15 carloads, or 450,000 lbs., and have heard nothing but praises from every user.

If you have been buying some of the "so-called" chick foods sold in Portland and elsewhere, send to us for our "highest quality" Sterling Chick Food—a complete food (with the exception of greens or grass), for baby chicks from shell until eight or ten weeks old. This mixture embraces the best combination of seeds, grains, foods, etc., that can be compounded for the purpose required. It gives the chicks quick growth and keeps them in good health.

It should be fed dry and the chicks made to work for it. It is clean to handle, always ready, and is the cheapest food you can buy or prepare.

Price, 5 lbs. 10c; 12½ lbs. 50c; 100 lbs. \$3.00; 500 lbs. @ \$2.70; 1000 lbs. @ \$2.60 per C.



Our "Trade Mark" of "Quality."

Kelso, Wash.,

Routledge Seed & Floral Co.  
Dear Sirs: Find enclosed \$13.75 for 500 lbs. Sterling Chick Food, "highest quality."

I bought your chick food last year and FOUND IT THE BEST. Will use no other.

J. C. PATTON.

### GRANULATED BONE—"SPECIAL"

The impression prevails in many quarters that bone must be fresh or green to be of value as a food. This is not the case. The fresh bone contains about 40 per cent water and 12 per cent grease; 52 per cent of matter which your fowls do not need. The granulated bone we offer is made from fresh, green bones, from which the moisture and grease have been taken, leaving the phosphates, lime and protein. Bone is especially valuable to poultry. Feed in a Sanitary Shell and Grit Box.

Price. 6 lbs. 25c; 14 lbs. 50c; 100 lbs. \$3.00; 500 lbs. at \$2.75; 1000 lbs. at \$2.60.

ORDINARY STOCK.—Bought locally. 100 lbs. \$2.50; 500 lbs. at \$2.35; 1000 lbs. at \$2.25

### HIGH-GRADE MEAT MEAL

A highly concentrated food. It is cooked meat, dried and ground. Very rich in protein. It should be mixed with the soft food.

5 lbs., 25c; 10 lbs., 50c; 50 lbs., \$2.00; 100 lbs. \$3.50; 500 lbs. at \$3.40; 1000 lbs. at \$3.35 per 100

### R. S. & F. Co.'s "HIGHEST QUALITY" SCRATCH FOOD

A complete ration for large chicks or full grown poultry. It is a perfectly balanced feed, composed of a variety of clean grains, mixed with the proper amount of prepared beef, fresh granulated bone, charcoal, grit and shell. Will keep your poultry in perfect condition. Makes an excellent and profitable food. You can't mix it as cheaply as we sell it, if you mix it right.

Price. 5 lbs. 25c; 10 lbs. 35c; 50 lbs. \$1.85; 100 lbs. \$2.50; 500 lbs. @ \$2.35; 1000 lbs. @ \$2.25.

**IMPORTANT NOTICE!** Poultry raisers, combine your orders with your neighbor and order in 5, 10 or 20-sack lots and get wholesale prices. 5 bags assorted foods at 500-lb. prices, 10 bags at 1000-lb. prices. Quantity prices subject to radical market changes in grain market.

**HIGH-GRADE BEEF SCRAPS**

Beef scraps are rich in materials which make bone, muscle and lean meat. They insure health, thrift and vigor, and satisfy the natural craving of the bird's system for flesh-food in some form. No other meat-food is so highly concentrated and no substitute is so convenient for handling and storage. Contain 55 per cent protein. We guarantee our Beef Scraps to be pure and free from any adulteration. Beef Scraps can be fed dry or with cooked rations. Put in one section of your Sanitary Shell and Grit Box.

Price, 5 lbs. 25c; 10 lbs. 50c; 50 lbs. \$2.25; 100 lbs. \$4.00; 500 lbs. at \$3.75.

**POULTRY PEPPER**

A good tonic and invigorator. Ground.

Price, 1 lb. 25c; 5 lbs. \$1.00

**POULTRY SHELLS, CRUSHED**

These should be within reach of your hens at all times. Not straight Oyster Shells, but a combination of Oyster, Sea and Clam Shells that is excellent—gives as good results and is much cheaper. We buy in 40-ton lots, carefully screened and free from waste. Put in one section of your Sanitary Feeder.

Price, 5 lbs. 10c; 12 lbs. 25c; 100 lbs. 75c; 500 lbs. at 65c; 1000 lbs. at 60c per 100.

**EASTERN OYSTER SHELL.**

100 lbs. \$1.25

**Cyphers' Chick and Poultry Foods**

This season we shall endeavor to keep in stock at all times Cypher's Standard Poultry Foods and will supply those who ask for it, as far as possible; BUT should we be out of Cypher's, INSTRUCT if we can send any other kind TO SAVE DELAY.

NOTE.—Let us know in advance what you want and we will order it in our next car of Cypher's Foods.

**Cyphers' Booklet—Foods and Feeding—is full of valuable information. Tells What to feed, When and How and why "Cyphers'" is best. Free. 2c stamp for postage.**

**CYPHERS' CHICK FOOD**

**A Complete, Scientifically Compounded Food for Young Chicks. No Weed Seeds, By-Products or Grit. Is Composed Solely of Sound, Sweet Grain.**

This chick food has been in successful use 12 years! Millions of pounds are sold every season. Each spring and summer a rapidly increasing number of experienced, successful poultry raisers use no other grain food for their small chicks. Year after year the same customers buy and use it because they get unequalled results and have found they can rely on its uniform quality. All chicks produced on the Cyphers Company \$50,000 poultry farm are fed this food and they grow them every year by the thousands.

**CYPHERS' CHICK FOOD**—the genuine article—is put up in sealed bags to prevent substitution and to protect the interests of thousands of earnest men and women who year after year are raising chickens the "Cyphers' Company way."

Prices, 5 lbs. 25c; 12½ lbs. 50c; 50 lbs. \$1.60; 100 lbs. \$3.00; 500 lbs. at \$2.75; 1000 lbs. at \$2.70 per 100.

**CYPHERS' DEVELOPING FOOD**

For Promoting the Growth of Young Stock. A Carefully Balanced Dry Grain Ration.

As its name implies, this is a special dry grain mixture intended for properly maturing chicks after they are ready to be weaned from Chick Food, and to carry them along to the age when it is desirable to place Scratching and Laying Mash before the pullets.

**CYPHERS' DEVELOPING FOOD** is properly balanced to supply the materials required for the rapid growth of bone, muscle and feathers. It is the best food on the market for developing young stock for show purposes or the breeding pen, both in size and plumage, and also for hastening the growth of chickens that are being raised for market purposes.

Prices, 5 lbs. 25c; 12½ lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.85; 500 lbs. at \$2.70; 1000 lbs. at \$2.60.

**50c Poultry Book.—Conkey's 80-pg. Poultry Book Free. Worth a \$ to anyone. A 4c stamp for postage or free with any order. Full of valuable information.**

**POULTRY MUSTARD.**

Ground fine.

1 lb 20c; 6 lbs. \$1.00

**CHARCOAL**

Our Granulated Charcoal is prepared especially for poultry; no dust; a good thing for bowel trouble, sour crop and indigestion; a health preserver. State size wanted—**A** for mash, **B** for chicks, **C** for large chicks or hens.

Price, 1 lb. 10c; 3 lbs. 25c; 10 lbs. 75c; 50 lbs. \$2.00; 100 lbs. \$3.75.

**CLOVER OR ALFALFA MEAL**

The best substitute for green food for Winter feeding; helps keep the egg basket full; mixed with the soft feed is good for large or small chicks; endorsed by leading experts.

Western Price, 1 lb. 10c; 10 lbs. 50c; 100 lbs. \$1.50.

We do NOT keep Cyphers in stock, but will order it if you'll pay the freight.

**GRIT**

Every poultry raiser should keep a supply of this grit in each pen. Made in three sizes, chick, pigeon or broiler and hen size. We always send hen size unless otherwise ordered.

Price, 5 lbs. 10c; 14 lbs. 25c; 100 lbs. \$1.00; 500 lbs. at 85c; 1000 lbs. at 75c.

**CYPHERS' GROWING MASH**

**An Easily Assimilated Food for Hopper Feeding. Promotes Rapid Growth of Bone and Muscle.**

We recommend that a hopper of Cyphers' Growing Mash be kept constantly before the young stock. They will eat only such quantities as they require, but will go to this food frequently, and its ingredients are such that the birds will develop rapidly, at the same time continuing in perfect health. This food contains ingredients not found in cracked grain mixtures—and it is these extra ingredients that fill out the ration and produce the desired result in the production of bone and muscle.

It should be remembered that when the object is to induce the rapidly growing birds to consume the maximum amount of food, a variety must be furnished. We strongly recommend the use of Growing Mash in connection with Developing Food until the chicks are three months old, when the Developing Food should be replaced by Scratching Food.

Prices, 12 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.85; 500 lbs. at \$2.70; 1000 lbs. at \$2.60.

**CYPHERS' LAYING MASH**

**A Balanced Ration of Ground Grains and Blood Meal, Ready Mixed for Hopper Feeding—Promotes Health—Increases the Egg Yield.**

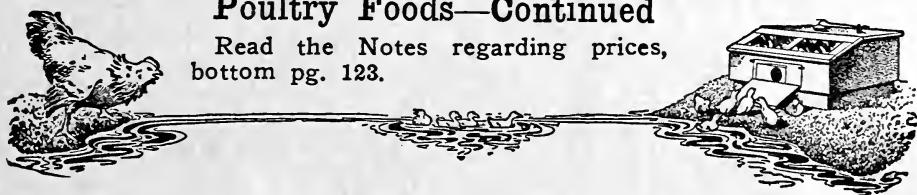
CYPHERS' LAYING MASH is not in any sense a condiment or an egg stimulant. On the contrary, it is strictly A FOOD—a palatable, highly nutritious, balanced egg ration, ready mixed for the daily mash, and is manufactured by us to meet the demand of poultrymen, who as a result of unfavorable experiences with cheap mash foods manufactured from by-products and inferior or damaged grain have learned the importance of using only such poultry foods as are produced from perfectly sound grains.

Poultrymen who wish to obtain the greatest food value for their money will realize that it is to their advantage to buy of manufacturers who are specialists in the production of poultry foods and who positively guarantee their goods under seal.

Prices, 12 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.75; 500 lbs. at \$2.65; 1000 lbs. at \$2.60.

## Poultry Foods—Continued

Read the Notes regarding prices,  
bottom pg. 123.



### CYPHERS' FATTENING MASH

Specially Designed to Promote Rapid Formation of Flesh.

To secure the highest market price the fowl must be "finished"; it should have a liberal supply of soft, tender meat on its frame, and this can be obtained only by the finishing or fattening process, whether the fowl is intended for broiler, roaster or capon.

Cyphers' Fattening Mash, when fed according to our directions, will produce results that cannot be obtained by any other method.

Prices, 12 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.70;  
500 lbs. at \$2.65; 1000 lbs. at \$2.60 per 100.

### CYPHERS' PIGEON FOOD

In compounding a food for pigeons the proper selection of various grains is of great importance. The peas it contains should be of a certain age. The wheat must be red, never white. The proportions of millet, hemp-seed, kaffir corn and all other materials that enter into it must conform to the known needs of the birds and be absolutely sweet and free from must, otherwise there is trouble. It is impossible for any feeder to purchase in this market materials of this kind and quality and assemble them in the proper portions at as low a price as we offer Cyphers' sealed-bag brand.

Price, 5 lbs. 25c; 12 lbs. 50c; 50 lbs. \$1.75; 100  
lbs. \$3.25; 500 lbs. at \$3.15; 1000 lbs. at \$3.10.

### CYPHERS' FERTILE EGG MASH

A Properly Balanced, Bulky Mash to Secure the Maximum Number of Fertile Eggs.

This food has for its special object the production of well-fertilized eggs in large numbers—eggs that possess in abundance, also in proper proportions, the rich materials needed to develop and feed the chick embryo so that the chick at hatching time will be large, vigorous and in perfect health.

Fanciers and market poultrymen whose aim it is to secure the best hatching results will find that this mash will do the work—that surprisingly satisfactory returns can be secured by its use.

May be fed dry, in hoppers, or can be used as a wet mash, feeding it in this form once a day.

Prices, 12 lbs. 50c; 50 lbs. \$1.50; 100 lbs. \$2.75;  
500 lbs. at \$2.65; 1000 lbs. at \$2.60.

### CYPHERS' SALT CAT (for Pigeons)

This preparation possesses aromatic and tonic properties of such roots, herbs and seeds as gentian, anise, caraway, cummin and coriander; also bone, crushed oyster shell, granulated charcoal, crushed limestone, rock salt, sulphate of iron, etc. It aids digestion, invigorates the system and promotes good health. It is put up in brick form, which keeps the birds busy picking at it, and prevents waste. Crumble the Salt Cat for young birds.

Prices: Per brick, 25c; doz. \$2.50. Mailing weight, 1½ lbs. each.

## Blatchford's Calf Meal

A perfect substitute for milk. As rich as whole milk; one-half as expensive. Sell your cream and use Blatchford's Calf Meal. A pound makes one gallon of perfect milk substitute equal to pure milk for raising calves. Prevents scouring and insures early maturity. Free 16-page booklet "tells all." If interested, write; a postal will do.

Milk containing the butter fats cannot be fed to calves at a profit, as larger returns can be had from creameries, condensing plants, etc. Skim milk alone is not nutritious enough to develop the calves rapidly, therefore, some cheap substitute for butter fats that can be mixed with skimmed milk and water must be found that will fully take the place of whole milk.

BLATCHFORD'S CALF MEAL is made exclusively and solely for this purpose. It is more rich and nutritious than the best whole milk, and farmers claim that it grows calves faster than any other feed. Full directions for feeding with each sack.

Prices: 25 lb. sack, \$1.25; 50 lb. sack, \$2.25; 100 lb. sack, \$4.00.



## Hog Food—Digester Tankage—"Beaver Brand"

### DIGESTER TANKAGE—Beaver Brand

Prepared only from materials which have been U. S. inspected and passed. They contain Pure Animal Matter in its most available and digestible form. Guaranteed Analysis: Protein, 60 per cent; phosphate, 6 per cent; fat, 8 per cent. This feed is made exclusively for the feeding of hogs, which has the endorsement of all the leading Agricultural Experiment Stations and is used by the best breeders and feeders of every state.

In a recent test at Oregon Experiment Station, the profit in feeding "Beaver Brand" Digester Tankage in connection with grain, against straight grain and alfalfa, was 37½ per cent. Write for pamphlets giving full information.

To be fed either wet or dry, mixed with ordinary ground feed, or can be prepared as a mash with slop at the rate of ¼ to 1 pound per day, according to size and age of pigs.

Prices.—Original sacks only, 50 lbs. \$1.50; 100 lbs. \$2.50; 500 lbs. at \$2.35; 1000 lbs. at \$2.80 per 100



## CANARY BIRDS

Largest retail and wholesale dealers of imported Canary Birds, Bird Supplies, Foods, etc., in the Northwest.

Note.—Do not compare our prices with the irresponsible bird fakers, who sell for little prices and supply inferior stock and females for males, etc.

**AMERICAN BRED ROLLERS.** Healthy, hardy, well-shaped birds, fine singers; all colors. **MALES**, \$2.50 to \$3.50 each. **FEMALE**, \$1.00; Selected deep yellow, \$2.00.

**HARTZ MOUNTAIN ROLLERS** (Imported). From the Hartz Mountains, Germany. Beautiful and incessant singers, hardy and thrive anywhere. Their cheery song is like sunshine to the soul; their bright plumage, active ways and cheerful dispositions make them the favorites and most popular. **MALES**, \$3.50 to \$5.00 each. **FEMALES**, \$1.50 to \$2.00 each.

**ST. ANDREASBERG** (Imported). These are world-renowned and the sweetest singers. They are given three to six months' musical training to develop the long trills, flute notes, etc. **MALES**, \$7.50 to \$10.00 each. **FEMALES**, \$2.00, \$3.00.

**BOOKS.** Canary breeding, feeding and training, 25c.

NOTE.—PLEASE REMEMBER, WE OFFER ONLY HIGH BRED, GUARANTEED STOCK, IN PERFECT CONDITION.

## BIRD CAGES, EXTRAS, ETC.

We regret that limited catalog space will not permit our describing our complete line of bird cages and extra parts. We invite all who can to call and see just what we have.

We expect in the near future to print a special catalog describing these supplies. Until then please write us for special information.

**BRASS**, Same style as cut and our leading seller. **WITH GUARD** (which keeps the birds from throwing seeds and dirt out of the cages), 9 $\frac{1}{4}$ x6 $\frac{1}{2}$  inches (floor), \$2.25; 10 $\frac{1}{2}$ x7 $\frac{1}{2}$  inches, \$3.00; 10 $\frac{1}{4}$ x9 $\frac{1}{4}$  inches, \$3.50. **WITHOUT GUARD**, \$1.75; \$2.00 and \$2.25, respectively.

**BRASS**, Mission, Globe and Fancy Designs, with or without patent bottoms, with cleaning drawers, guards, etc., \$4.50 to \$6.50 and up.

**ENAMELED**, with brass guards, 10x7 and larger, low-priced, but good, \$2.00 to \$2.75 each. Without guards, \$1.00 to \$2.00 each.

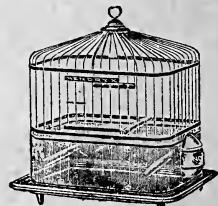
**BREEDING CAGES**.—White enamel, single \$2.25; double \$2.75 to \$3.75.

**PARROT CAGES**.—Round, 14-in. diameter, \$2.25; 17 $\frac{1}{2}$ -in. diameter, \$4.00.

**FOOD AND WATER CUPS**.—Opal or clear glass, open or closed top. Each 10; postpaid, 15c.

**BRASS SUSPENSION SPRINGS**.—10c postpaid; with chains, 35c.

**BRASS WALL BRACKETS OR CAGE HOOKS**.—15, 25c, 40c each; postage, 10c extra.



Cage With Guards.

**WOODEN PERCHES**.—5c each; postage, 3c.

**BIRD BATH HOUSE**.—New.—White enameled bottom, glass sides and top, 4 inches square. Fill the bottom with warm water, open cage door and hook bath house before it. "His Majesty" can go in and take his bath when he pleases and cannot splash water outside. Price, each 50c. (P. P. weight, 1 $\frac{1}{2}$  lbs.)

**BATHING DISHES**.—Glass, 10c; opal, 15c. (P. P.  $\frac{1}{2}$  lb.)

## BIRD SEEDS, FOODS AND REMEDIES

We are making a specialty of bird foods and seeds and our rapidly increasing trade shows that the public appreciates the opportunity to get "High Quality" foods and remedies of "Merit" for their pets. A trial will convince anyone of the superiority of our "H. Q." (Highest Quality) Imported Bird Seeds.

**H. Q. IMPORTED BIRD SEED**.—Our own special mixture for imported Hartz Mountain and St. Andreasberg Canaries. Contains no hemp, but the correct amounts of Imported Canary, Sweet Rape, Millet and Maw. Put up in sealed 1-lb. cartons only, containing Cuttle Bone and Bird Sand. Price, any quantity, 15c per lb. Cannot be sold for less. **Ordinary Mixed Bird Seed**, 10c lb.

**H. Q. Imported Canary Seed**, recleaned. 15c lb.

**Hemp Seed** (very fattening). 10c lb.

**Rape Seed**, common. 10c lb.

**H. Q. Imported Sweet German Rape**, 20c lb.

Easily detected by the sweet taste and used exclusively in our H. Q. Imported Bird Seed.

**Bird Sand**, silver washed. 2 $\frac{1}{2}$  lb. cartons, 10c

**Crystal Grit**, very fine. 5c lb.; 6 for 25c

**Cuttle Bone**, high grade. Postpaid, 5c; with patent fasteners, 10c

**Mixed Parrot Seeds**. 15c lb.; 2 for 25c

**H. Q. Sunflower Seeds**. 15c lb.; 2 for 25c

**Corn for Parrots**. 10c lb.; 3 for 25c

**Gravel for Parrots**. 5c lb.; 6 for 25c

**BIRD MANNA**.—Food and medicine combined. A good conditioner. Comes in round cakes. Fastens on the wires. Per cake, postpaid, 15c

**TURKISH MAW SEED**.—Canaries are very fond of it. Should be fed sparingly. 20c lb.

**BIRD BUTTERS**.—Liquid tonic. (P. P. 1 lb.) 25c

**BIRD ORANGE COLOR FOOD**. (P. P. 1 lb.) 25c

**M. G. PARROT TONIC**.—Excellent medicine for sick parrots. (P. P. 1 lb.); per bottle 25c

**M. G. MOCKING BIRD FOOD**.—A very superior preparation. (P. P. 1 lb.); per can 30c

### MAX GEISLER'S BIRD FOODS AND TONICS.

Highly recommended by all who have used them. Our trade is rapidly increasing. Full directions for use with each package.

**TREATMENT A—SONG RESTORER**.—For loss of voice from cold, etc. 25c; prepaid, 35c

**TREATMENT B—DIGESTIVE TROUBLE**.—For loss of appetite and bowel trouble. 25c; prepaid, 35c

**TREATMENT C**.—For colds or birds that are breathing hard, sneezing, etc. 25c; prepaid, 35c

**TREATMENT D—GENERAL TONIC**.—For birds that are puffed up and apparently sick. 25c; prepaid, 35c

**M. G. CANARY HEALTH FOOD**. 15c; postpaid, 20c

**M. G. SONG AND MOULTING FOOD**.—Excellent when shedding feathers and off song. 15c; postpaid, 20c

**M. G. BIRD BISCUIT**.—Very valuable additional food for a change. 10c; postpaid, 20c

**M. G. MEDICATED BIRD BISCUIT**.—Excellent for weak and sick birds. 20c; postpaid, 25c

**M. G. VEGETABLE EXTRACT**.—Best blood tonic for birds. 25c; postpaid, 35c

**M. G. MITE POWDER**.—For lice-mites. 10c; postpaid, 15c

**M. G. FLUID MITE EXTERMINATOR**.—To put in bath water. 10c bottle; postpaid, 20c

**M. G. MIXED PARROT SEEDS**. Lb. pkg. 20c

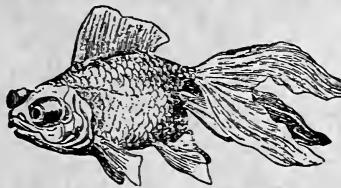
**M. G. PARROT BISCUIT**.—Excellent additional food; much relished. (P. P. 1 lb.) 25c

**M. G. PARROT HEALTH FOOD**.—For health and fine feathers. (P. P. 1 lb.); pkg. 25c

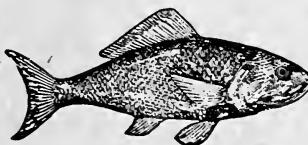
**NOTE—BY PARCELS POST**.—You can now get the foods, etc., by mail at a low cost. Note P. P. weights and consult the Rate and Zone Table inside front cover.

## GOLDFISH GLOBES, FOOD, ETC.

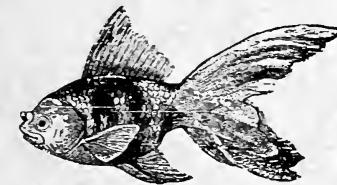
We are the largest retail and wholesale dealers in Fancy Gold Fish in the Northwest, often having a thousand or more on display at our store.



Chinese Telescope.



Common Gold Fish.



Japanese Fan-tail.

An aquarium is a beautiful ornament. It suits everywhere, parlor, library, dining and sitting room, and may indeed be introduced in apartments of the sick. The bright, active Gold Fish are very interesting, a perpetual source of amusement for both old and young folks. Children are always delighted with them.

**CARE OF GOLD FISH.**—The care of Gold Fish is very simple and little trouble. The water in the aquaria must be changed from one to six times a week, depending on the size of the globe, number of fish and the temperature. When the fish come to the surface and gasp for air, they should be given fresh water. **FEEDING.**—The only safe diet is our prepared Fish Food, fed daily and only what they will eat up quickly. Bread or cracker crumbs should never be fed—more fish die from overfeeding than any other cause. Keep the aquaria out of the sun and in a cool place.

### PRICE LIST OF FISH.

#### Common Gold Fish (see cut).

Very hardy and lively. Each, VERY SMALL, 15c; SMALL, 25c; MEDIUM, 35c; MEDIUM LARGE, 50c; LARGE, 3 to 4 inches, 75c; EXTRA LARGE, \$1.00; EXTRA LARGE BREEDERS, \$1.50 to \$2.00; FANCY TRI-COLORED, 35c to \$1.00 and up.

#### Common Silver Fish.

Same as above, except they are silvery white. Each, MEDIUM, 25c; LARGE, 50c; LARGE BREEDERS, \$1.00.

#### Japanese Fan-tail (see cut).

The most popular fancy fish. The fins and tail are of a delicate lace-like appearance, very showy and attractive. PRICE, GOLDEN, SMALL, 25c; MEDIUM, 35c; LARGE, 50c to \$1.00; TRI-COLORED, Golden-Red, Pearly-White and Black, showing two or all three colors, 50c, 75c and \$1.00 each.

#### Comet.

Very fancy; the most graceful of all. Similar to the Japanese Fan-tail, but the fins and tail are much longer and delicate. The tail is often longer than the fish. Price each, SMALL, 25c; MEDIUM, 50c; LARGE, 75c to \$1.00; LARGE FOUNTAIN SIZE, \$2.50.

#### Chinese Telescope (see cut).

Curious and attractive on account of the large, elongated eyes, having the appearance of a telescope. Flowing double tails. Very rare. Price each, ALL GOLD, 50c to 75c; ALL BLACK, 75c to \$1.00; BLACK AND GOLD, 75c to \$1.50.

#### Tadpoles.

Desirable as scavengers for the aquaria. They consume the decaying matter and help keep the water pure. Price each, 15c.

**NOTE.—ALL SHIPMENTS** (outside of the city) by EXPRESS ONLY and a charge of 15c is made to cover cost of SHIPPING BUCKET, holding from TWO TO SIX FISH. Gold Fish can be shipped safely overland hundreds of miles.

## CONKEY'S GUARANTEED STOCK REMEDIES

### CONKEY'S STOCK REMEDIES

**Stock Tonic.**—For horses, cows, sheep and hogs. 2 lbs., 25c; 3 lbs. 50c; 7 lbs. \$1.00. Mailing weights given—12-lb. pails, \$2.00 and 25-lb. pails \$3.50, not mailable.

**Worm Remedy.** 50c postpaid  
**Colic Remedy.**—Just a few drops on the tongue; effective.

50c; postpaid, 60c; \$1.00 size postpaid, \$1.10

**Eye Lotion.** Postpaid 50c

**Distemper and Cough Remedy.** 60c postpaid

**Healing Powder.**—For gall sores or wounds. 25c; postpaid 35c

**Gall Salve.** 25c and 50; postage 10c extra

**Pain Lotion.**—For swellings, etc. (P. P. 2 lbs.) 50c

**CONKEY'S STOCK BOOK.**—This 224-page illustrated and up-to-date book is priced at \$1.00 and is well worth it, but we get a few hundred free with each car of Conkey's Remedies and will mail them FREE to our customers as long as they last for 10c TO COVER POSTAGE, or FREE with any \$1 ORDER.

**Hoof Remedy.**—The very best.

Pint. (P. P. 1½ lbs.) 50c; quart (P. P. 3 lbs.) 75c; ½-gal. \$1.25; gal. \$2.00

**Absorbent.**—For spavins, etc. (P. P. 1 lb.) \$1.00

**Bag Ointment.** 25c and 50c; postage 10c

**Nox-i-cide.**—Best disinfectant. Pint (P. P. 2 lbs.) 35c; quart 60c; ½-gallon 90c; gallon \$1.50

**Dip and Disinfectant.**—Best sheep and hog dip made.

Qts. (P. P. 3½ lbs.) 50c; 2 qts. 60c; ½-gal. 75c; gal. \$1.00; 5-gal. \$4.00

**Salt-em.**—Medicated salt, much better than rock salt. Ask for pamphlet.

Prices: 200-lb. bbl. \$11.00; 100-lb. keg \$6.00; 40-lb. pail \$2.75; 20-lb. pail \$1.50; 10-lb. pail 90c.

Not mailable.

**Fly Knocker.**—Best fly spray made; fully guaranteed.

Qt. 35c; 2 qts. 60c; gal. \$1.00



Standard Fish Globe.

### Aquaria Plant or Moss.

This water plant improves the appearance of the aquaria or globe and helps purify the water. Price per bunch, 25c, postpaid. Cannot supply in July or August.

### Fish Food.

Best imported wafer, large box, enough food for four fish for six months, 25c postpaid. Directions for feeding and care on each box.

### Fish Globes.

Without foot or base, each quart, 25c; ½-gal. 35c; ¾-gal. 50c; 1-gal. 75c; 1½-gal. \$1.00; 2-gal. \$1.25; 2½-gal. \$1.75; 3-gal. \$2.25. WITH BRASS CHAINS FOR HANGING, 25c extra.

### Standard Globes.

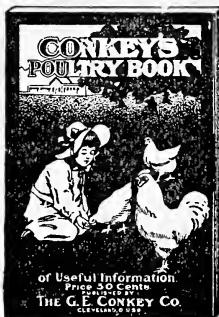
Like illustration, each, ¼-gal. \$1.00; ¾-gal. \$1.25; 1-gal. \$1.50; 1½-gal. \$1.75; 2-gal. \$2.00; 2½-gal. \$2.50; 3-gal. \$3.00.

### Aquaria Castles.

As ornaments to set in the globes. 25c to 50c and up to \$1.00 each

**BOOK—AQUARIA AND GOLD FISH.** Gives full information on care, breeding and feeding: illustrated. 25c

## CONKEY'S GUARANTEED POULTRY REMEDIES



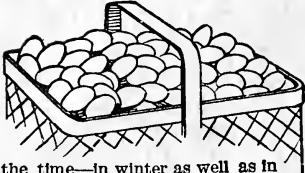
**READ THIS.**—We handle 2 to 3 carloads a year of these celebrated remedies which have built their reputation upon the scientific basis of one remedy for each disease.

A "Cure All" is not made by the Conkey Company. Each remedy is intended to serve one special purpose and serve it well. These goods are absolutely guaranteed and we offer them to you on this basis: If they fail to satisfy you in any particular, your money will be refunded to you cheerfully.

### Conkey's 50c Poultry Book—FREE

Limited space here will not permit us to describe all of these remarkable remedies, but we will gladly mail a copy of Conkey's 72-page Poultry Book, which not only fully describes these remedies, but contains 60 pages of practical and valuable information on FEEDING, CARE and HOUSING of POULTRY. Free if you call or mailed for 4c stamp.

### Get More Eggs



Get them all the time—in winter as well as in summer. More eggs mean more profits. Get the most out of your hens by giving them

### Conkey's Laying Tonic

It will insure the maximum egg production. Guaranteed to please you or money back. Prices

2 lbs. 25c; 4 lbs. 50c; 8 lbs. \$1.00; 25-lb. pail \$3.00  
Note.—Weights, wrapped for mailing.

**Conkey's Lice Powder.**—It is positive death to lice, ticks, etc. Equally effective for lice on setting hens and young chicks. Gets them all. Cleans up the coop. Absolutely harmless to even the smallest chick. Easy to apply and does the business or your money back. Get a package today.

Prices: 8-oz. pkg. 10c; 1½-lb. 25c; 4 lbs. 50c; 8 lbs. \$1.00; 25-lb. pail \$3.00.

Note.—Weights given wrapped for mail.

**Conkey's Lice Liquid.**—A powerful liquid that will destroy the thousands of red mites that live in the cracks and crevices of the house and nests in the day and swarm the fowls' bodies at night. You can't reach them with a powder. Paint or spray the roosts, nests and walls.

Prices: 1-qt. can 35c (P. P. 3½ lbs.); 2 qts. 60c; 1 gal. \$1.00; 5 gals. \$4.00.

Note.—Quart can only mailable.

**Conkey's Head Lice Ointment.**—Save your little chicks from the ravages of the deadly head lice. Absolutely harmless to the little chicks. Put up in tubes. Easy to apply.

**Conkey's White Diarrhoea Remedy.**—Save your chicks by putting it in their drinking water.

Price 25c and 50c, postpaid

### Conkey's Specialties.

**Healing Salve.**—For chapped hands, lips, cuts, sores, etc. 25c and 50c postpaid

**Ant Chaser.**—Non-poisonous and harmless to children and animals. Price 50c a box (P. P. 3½ lbs.)

**Pino.**—This is a perfect disinfectant for household use without the disagreeable odor.

Price: 25c (P. P. 1 lb.); 1 pt. 50c (P. P. 3 lbs.); qt. 75c (P. P. 5 lbs.). Not mailable, 2 qts. \$1.00; gal. \$1.50.



### Have it on Your Shelf

Roup kills quickly and spreads rapidly. Don't take any chances. Be prepared for it and save your fowls and your profits.

Keep on hand—ready for the first signs of the disease—

### Conkey's Roup Remedy

It kills the disease germs, invigorates the bird and restores your profits. Your money back if it doesn't please you.

Three sizes, 25c, 50c, \$1.00, postpaid. 50c-size makes 25 gallons of medicine.

|                                |                      |
|--------------------------------|----------------------|
| —Bronchitis Remedy.            | 50c postpaid         |
| —Blackhead Remedy.             | 50c postpaid         |
| —Cholera Remedy.               | 50c postpaid         |
| —Gape Remedy.                  | 50c, or 65c postpaid |
| —Chicken Pox Remedy.           | 50c, or 60c postpaid |
| —Limber Neck Remedy.           | 50c, or 60c postpaid |
| —Scaly Leg Remedy.             | 50c, or 60c postpaid |
| —Rheumatic Remedy.             | 50c, or 60c postpaid |
| —Poultry Laxative.             | 25c, or 30c postpaid |
| —Poultry Tonic.                | 25c, or 35c postpaid |
| —Poultry Worm Remedy.          | 50c postpaid         |
| —Poultry Flea Salve.           | 25c, or 30c postpaid |
| —Sulphur Candles (fumigating). | 10c, 15c postpaid    |

### Conkey's Dog Remedies.

Your dog is your best friend and is entitled to kind treatment and good care. For the ailments to which they are subject you will find nothing better than Conkey's Dog Remedies.



**Mange Remedy.**—An absolute cure. Full directions on can. (P. P. 2 lbs.) 50c

**Distemper Remedy.**—This is an excellent remedy for this terrible disease. Price 50c; 60c postpaid

**Dog Tonic.** (P. P. ¾ lb.) Price 50c

**Worm Drops.**—Absolutely safe. A sure remedy. (P. P. ¾ lb.) Price 50c

**Pi-no.**—Is a valuable disinfectant and germicide for the dog owner. Very agreeable pine odor. See prices under Conkey's Specialties.

**BY PARCELS POST.**—At last we have an inexpensive way of getting these valuable remedies to our far-away customers. On those NOT MARKED postpaid, TAKE THE P. P. (Parcels Post) weight and consult the Zone and Rate Tables inside front cover, so you can add proper amount for postage.

## REFERENCE TABLES

### Quantity of Seed Required to Produce a Given Number of Plants and Sow an Acre

|                                          | Quantity per acre. |                                                                   | Quantity per acre. |
|------------------------------------------|--------------------|-------------------------------------------------------------------|--------------------|
| Artichoke, 1 oz. to 500 plants.          | 6 oz.              | Grass—Orchard, Perennial, Rye, Red Top, Fowl Meadow, Wood Meadow. | 2 bu.              |
| Asparagus, 1 oz. to 800 plants.          | 1 lb.              | Horse Radish Roots.                                               | 10,000 to 15,000   |
| Barley.                                  | 2 to 2½ bu.        | Kale, 1 oz. to 5000 plants.                                       | 4 oz.              |
| Beans, dwarf, 1 lb. to 100 ft. of drill. | 1 bu.              | Kaffir Corn, in drills.                                           | 6 to 8 lbs.        |
| Pole, 1 lb. to 100 hills.                | ½ bu.              | Kohl Rabi, 1 oz. to 100 ft. of drill.                             | 4 lbs.             |
| Beet, garden, 1 oz. to 100 ft. drill.    | 7 lbs.             | Leek, 1 oz. to 100 ft. of drill.                                  | 4 lbs.             |
| Mangel, 1 oz. to 75 ft. drill.           | 5 lbs.             | Lettuce, 1 oz. to 150 ft. of drill.                               | 3 lbs.             |
| Broccoli, 1 oz. to 2000 plants.          | 4 oz.              | Millet, for seed, 12 lbs., for hay.                               | 20 lbs.            |
| Brussels Sprouts, 1 oz. to 2000 plants.  | 4 oz.              | Melon, Musk, 2 oz. to 100 hills.                                  | 2 to 3 lbs.        |
| Broom Corn, in drills.                   | 15 lbs.            | Water, 4 oz. to 100 hills.                                        | 2 to 4 lbs.        |
| Buckwheat.                               | ½ to 1 bu.         | Nasturtium, 1 oz. to 20 ft. of drill.                             |                    |
| Cabbage, 1 oz. to 2000 plants.           | 4 oz.              | Oats.                                                             | 2 to 3 bu.         |
| Carrot, ½ oz. to 100 ft. drill.          | 3 lbs.             | Okra, 1 oz. to 100 ft. of drill.                                  | 8 lbs.             |
| Cauliflower, 1 oz. to 3000 plants.       | 3 oz.              | Onion Seed, for sets.                                             | 60 to 85 lbs.      |
| Celery, 1 oz. to 5000 plants.            | 4 oz.              | 1 oz. to 150 ft. of drill.                                        | 4 to 5 lbs.        |
| Cheat.                                   | 2 bu.              | Onion Sets, 1 qt. to 40 ft. of drill.                             | 8 bu.              |
| Chicory.                                 | 4 lbs.             | Parsnips, 1 oz. to 150 ft. of drill.                              | 3 lbs.             |
| Clover, Alsike and White.                | 6 to 8 lbs.        | Parsley, 1 oz. to 150 ft. of drill.                               | 3 lbs.             |
| Alfalfa.                                 | 15 to 20 lbs.      | Peas, Field.                                                      | 2 bu.              |
| Crimson Trefoli.                         | 10 to 15 lbs.      | Garden, 1 lb. to 100 ft. of drill.                                | 1 to 2 bu.         |
| Red.                                     | 10 to 12 lbs.      | Pepper, 1 oz. to 1000 plants.                                     |                    |
| Collards, 1 oz. to 2000 plants.          | 4 oz.              | Pumpkin, ½ lb. to 100 hills.                                      | 3 to 4 lbs.        |
| Corn-Wheat.                              | 2 bu.              | Radish, 1 oz. to 100 ft. of drill.                                | 10 lbs.            |
| Corn, Pop (shelled).                     | 8 to 10 lbs.       | Rape.                                                             | 3 to 5 lbs.        |
| Sweet or Field, hills.                   | 12 to 20 lbs.      | Rye.                                                              | 1½ to 2 bu.        |
| For sowing, drills.                      | 2 bu.              | Salsify, 1 oz. to 100 ft. of drill.                               | 6 lbs.             |
| Cress, ¼ oz. to 100 ft. of drill.        | 1 lb.              | Speltz.                                                           | 100 lbs.           |
| Cucumber, 1 oz. to 100 hills.            | 2 to 3 lbs.        | Spinach, 1 oz. to 100 ft. of drill.                               | 8 lbs.             |
| Egg Plant, 1 oz. to 2000 plants.         | 4 oz.              | Sugar Cane, in drills.                                            | 10 lbs.            |
| Endive, ¼ oz. to 100 ft. of drill.       | 4 lbs.             | Sunflower.                                                        | 8 lbs.             |
| Flax, broadcast.                         | ¾ bu.              | Squash, Summer, 4 oz. to 100 hills.                               | 3 lbs.             |
| Grass, Blue, Kentucky.                   | 2 bu.              | Winter, 8 oz. to 100 hills.                                       | 4 lbs.             |
| Meadow Fescue.                           | 1 bu.              | Tomato, 1 oz. to 2000 plants.                                     | 4 oz.              |
| Mixed Lawn.                              | 5 to 6 bu.         | Tobacco, 1 oz. to 4000 plants.                                    | 3 oz.              |
| Red Top.                                 | 2 bu.              | Turnip, 1 oz. to 150 ft. of drill.                                | 2 to 3 lbs.        |
| Red Top, solid seed.                     | 12 to 15 lbs.      | Vetches.                                                          | 2 bu.              |
| Timothy.                                 | 12 to 15 lbs.      | With grain.                                                       | 1 bu. each         |
|                                          |                    | Wheat.                                                            | 1½ to 2 bu.        |

### WEIGHT OF VARIOUS SEEDS

|                                        | Per bushel. |                 | Per bushel. |
|----------------------------------------|-------------|-----------------|-------------|
| Barley.                                | 48 lbs.     | Onion Sets.     | 32 lbs.     |
| Beans.                                 | 60 lbs.     | Peach Pits.     | 48 lbs.     |
| Buckwheat.                             | 48 lbs.     | Peas, Smooth.   | 60 lbs.     |
| Cheat.                                 | 34 lbs.     | Peas, Wrinkled. | 56 lbs.     |
| Clover seed.                           | 60 lbs.     | Perennial Rye.  | 20 lbs.     |
| Corn-Wheat.                            | 60 lbs.     | Potatoes.       | 60 lbs.     |
| Corn, Shelled.                         | 58 lbs.     | Rape.           | 60 lbs.     |
| Charcoal.                              | 22 lbs.     | Rye.            | 58 lbs.     |
| Flax Seed.                             | 56 lbs.     | Red Top.        | 14 lbs.     |
| Grass Seeds (unless otherwise stated). | 14 lbs.     | Solid Seed.     | 42 lbs.     |
| Lawn Grass.                            | 20 lbs.     | Speltz.         | 40 lbs.     |
| Meadow Fescue.                         | 24 lbs.     | Timothy Seed.   | 45 lbs.     |
| Millet.                                | 48 lbs.     | Vetches.        | 60 lbs.     |
| Oats.                                  | 32 lbs.     | Wheat.          | 60 lbs.     |

### SUITABLE DISTANCE FOR PLANTING FRUITS

| Note.—In planting in the home garden for hand cultivation, you can set plants or trees closer. |              |                                     |             |
|------------------------------------------------------------------------------------------------|--------------|-------------------------------------|-------------|
| Apples, Standard.                                                                              | 20 to 30 ft. | Grapes.                             | 6 by 8 ft.  |
| Apples, Dwarf.                                                                                 | 8 to 10 ft.  | Currants.                           | 4 by 4 ft.  |
| Pears, Standard.                                                                               | 18 to 20 ft. | Gooseberries.                       | 5 by 6 ft.  |
| Pears, Dwarf.                                                                                  | 10 ft.       | Raspberries.                        | 3 by 6 ft.  |
| Peaches and Apricots.                                                                          | 18 to 18 ft. | Trailing Blackberries, Logans, etc. | 8 by 8 ft.  |
| Cherries, Sweet.                                                                               | 18 to 20 ft. | Other Blackberries.                 | 2½ by 8 ft. |
| Cherries, Sour.                                                                                | 15 to 18 ft. | Strawberries, rows.                 | 2 by 3½ ft. |
| Plums and Prunes.                                                                              | 18 to 20 ft. | Strawberries, in beds.              | 1½ by 2 ft. |
| Quince.                                                                                        | 10 to 12 ft. | Asparagus, in beds.                 | 1 by 1½ ft. |
|                                                                                                |              | Asparagus, in field.                | 1 by 4 ft.  |

### NUMBER OF TREES OR PLANTS ON AN ACRE

|                  |        |                   |       |
|------------------|--------|-------------------|-------|
| 24 by 18 inches. | 15,520 | 8 feet each way.  | 1,210 |
| 2 feet each way. | 10,890 | 8 feet each way.  | 880   |
| 2 by 3½ feet.    | 6,223  | 10 feet each way. | 430   |
| 3 feet each way. | 4,840  | 12 feet each way. | 302   |
| 3 by 1 foot.     | 14,520 | 15 feet each way. | 194   |
| 3 by 4 feet.     | 3,630  | 18 feet each way. | 170   |
| 3 by 6 feet.     | 2,420  | 18 feet each way. | 135   |
| 4 feet each way. | 2,723  | 20 feet each way. | 110   |
| 4 by 1 foot.     | 10,890 | 25 feet each way. | 70    |
| 4 by 2 feet.     | 5,445  | 30 feet each way. | 48    |
| 5 by 6 feet.     | 1,452  | 40 feet each way. | 28    |

Note.—Multiply the distance in feet between the rows by the distance the plants are apart in the rows, and the product will be the number of square feet, for each plant or hill, which, divided into the number of square feet in an acre (43,560), will give the number of plants or trees to the acre.

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